

**FINAL
REMEDIAL INVESTIGATION REPORT**

FAR EAST ILLEGAL DUMP SITE

**ENVIRONMENTAL REMEDIATION SERVICES AT FOUR INSTALLATION
RESTORATION PROGRAM SITES AND MILITARY MUNITIONS PROGRAM SITES
AT FORT BLISS, TEXAS**

**CCFTBL-001
Contract Number W91ZLK-13-D-0003
Task Order Number 0003**

Prepared for:



**UNITED STATES ARMY ENVIRONMENTAL COMMAND
Fort Sam Houston, Texas**

April 2018

STATEMENT OF INDEPENDENT TECHNICAL REVIEW

REMEDIAL INVESTIGATION REPORT

FAR EAST ILLEGAL DUMP SITE

ENVIRONMENTAL REMEDIATION SERVICES AT FOUR INSTALLATION RESTORATION PROGRAM SITES AND MILITARY MUNITIONS PROGRAM SITES AT FORT BLISS, TEXAS

Contract Number W91ZLK-13-D-0003

Task Order Number 0003

Cape Environmental Management Inc has completed the *Remedial Investigation Report for the Far East Illegal Dump Site at Fort Bliss* located in Fort Bliss, Texas. Notice is hereby given that an independent technical review has been conducted. During the independent technical review, compliance with established policy principles and procedures was verified.

Prepared By:

(b) (6)

Corinne Walker, E.I.T.

Project Engineer

Date: 16 August 2017

Reviewed By:

(b) (6)

(b) (6)

Project Manager

Date: 16 August 2017

Significant concerns expressed by the Cape Environmental Management Inc independent technical reviewer and the explanations of the resolution are as follows:

No significant concerns have been identified.

As noted above, all concerns resulting from the independent technical review of the document have been considered.

(b) (6)

5 December 2017

(b) (6)

, P.E.

Independent Technical Reviewer

Date

TABLE OF CONTENTS

<i>Section</i>	<i>Page</i>
TABLE OF CONTENTS	i
LIST OF APPENDICES	ii
LIST OF TABLES	ii
LIST OF FIGURES	ii
ACRONYMS AND ABBREVIATIONS.....	iii
EXECUTIVE SUMMARY	ES-I
CHAPTER 1 INTRODUCTION	1-1
1.1 PURPOSE OF REPORT.....	1-1
1.2 SITE BACKGROUND.....	1-1
1.3 REPORT ORGANIZATION.....	1-3
CHAPTER 2 STUDY AREA INVESTIGATION	2-1
2.1 SURFACE FEATURES	2-1
2.2 CONTAMINANT SOURCE INVESTIGATION	2-1
2.3 CLIMATE.....	2-1
2.4 SURFACE WATER	2-1
2.5 GEOLOGY AND SOIL.....	2-2
2.6 GROUNDWATER	2-2
2.7 DEMOGRAPHICS	2-2
2.8 ECOLOGY	2-2
2.9 CURRENT AND PROJECTED LAND USE	2-3
CHAPTER 3 PHYSICAL CHARACTERISTICS OF THE STUDY AREA	3-1
3.1 OVERALL INVESTIGATION STRATEGY	3-1
3.2 FIELD INVESTIGATION	3-3
3.3 DATA VALIDATION.....	3-5
CHAPTER 4 NATURE AND EXTENT OF CONTAMINATION.....	4-1
4.1 SURFACE SOILS	4-1
4.2 SUBSURFACE SOILS	4-4
4.3 CONCLUSIONS ADDRESSING POTENTIAL NATURE AND EXTENT OF SOIL CONTAMINATION.....	4-5
CHAPTER 5 CONTAMINANT FATE AND TRANSPORT.....	5-1
5.1 POTENTIAL MIGRATION ROUTES	5-1
5.2 CONTAMINANT MIGRATION PROCESS.....	5-1
5.3 FATE AND TRANSPORT FOR SITE CONTAMINANTS	5-3
CHAPTER 6 BASELINE RISK ASSESSMENT	6-1
6.1 SELECTION OF CHEMICALS OF POTENTIAL CONCERN	6-1
6.2 HUMAN HEALTH RISK ASSESSMENT.....	6-2
6.3 ECOLOGICAL RISK ASSESSMENT	6-3
6.4 TRRP TIER 1 ECOLOGICAL CHECKLIST	6-4
CHAPTER 7 SUMMARY AND CONCLUSIONS.....	7-1
7.1 SUMMARY.....	7-1
7.2 CONCLUSIONS.....	7-2
CHAPTER 8 REFERENCES	8-1

LIST OF APPENDICES

Appendix A	Analytical Results Tables and Quality Assurance Report
Appendix A-1	Analytical Results for Organic Contaminants
Appendix A-2	Analytical Results for Inorganic Contaminants
Appendix A-3	Inorganic Compound Comparison with Screening Levels and Site Background
Appendix A-4	Quality Assurance Report
Appendix A-5	Data Evaluation Report for Investigation Derived Waste Characterization
Appendix B	Daily Quality Control Reports
Appendix C	Risk Assessment Report
Appendix D	Tier 1 Exclusion Criteria Checklist and Supporting Documentation

LIST OF TABLES

Table 1-1	Previous Investigation Analytical Data Summary Far East Illegal Dump Site, Fort Bliss, Texas	1-4
Table 2-1	Threatened and Endangered Species for El Paso County, Texas Far East Illegal Dump Site, Fort Bliss, Texas	2-4
Table 3-1	Summary of Soil Samples Collected During the RI Far East Illegal Dump Site, Fort Bliss, Texas	3-8
Table 4-1	Maximum Detected Contaminant Concentrations for Soil Samples Far East Illegal Dump Site, Fort Bliss, Texas	4-7

LIST OF FIGURES

Figure 1-1	Site Location Map, Far East Illegal Dump Site, Fort Bliss, Texas	1-5
Figure 1-2	Previous Investigations, 2014 Preliminary Assessment Sample Locations, Far East Illegal Dump Site, Fort Bliss, Texas	1-6
Figure 3-1	Visual Survey Results, Far East Illegal Dump Site, Fort Bliss, Texas	3-10
Figure 3-2	Remedial Investigation Soil Sample Locations, Far East Illegal Dump Site, Fort Bliss, Texas	3-12
Figure 4-1	Remedial Investigation Soil Sample Results, Far East Illegal Dump Site, Fort Bliss, Texas	4-9

ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
°C	degrees Celsius
CAPE	Cape Environmental Management Inc
CCFTBL-001	Far East Illegal Dump Site
CEC	cation exchange capacity
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COPC	chemical of potential concern
COPEC	chemical of potential ecological concern
CSM	conceptual site model
DoD	Department of Defense
DQCR	Daily Quality Control Report
DQO	data quality objective
ECSM	ecological conceptual site model
Eh	redox potentials
ERA	Ecological Risk Assessment
°F	degree(s) Fahrenheit
FD	field duplicate
FTBL	Fort Bliss
^{GW} Soil _{Ing}	Tier 1 Protective Concentration Limits for residential soil, protection of groundwater
HHRA	Human Health Risk Assessment
ICB/CCB	initial and continuing calibration blank
ID	identification
IDW	investigation derived waste
J	Data qualifier indicating the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
JB	Data qualifier indicating the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample and blank contamination. The recorded results (less than five times laboratory non-common contaminants or less than 10 times laboratory common contaminants) is associated with a contaminated blank.

ACRONYMS AND ABBREVIATIONS

K _d	soil-water distribution coefficient
km/hr	kilometer(s) per hour
LCS	laboratory control sample
LOQ	sample limit of quantitation
m	meter(s)
MB	method blank
mg/kg	milligram(s) per kilogram
MI	multi-incremental
mph	mile(s) per hour
MS	matrix spike
MSD	matrix spike duplicate
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NFGs	National Functional Guidelines
NOAA	National Oceanic and Atmospheric Administration
NPS	National Park Service
NRCS	National Resources Conservation Service
OB	open burn
OTIE	Oneida Total Integrated Enterprises, Inc.
OVA-PID	organic vapor analyzer, photoionization detector
PA	Preliminary Assessment
PARCC	precision, accuracy, representativeness, comparability, and completeness
PCB	polychlorinated biphenyl
PCL	protective concentration limit
ppm	part(s) per million
QAR	Quality Assurance Report
QSM	Quality Systems Manual
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RPD	Relative Percent Difference
RSL	Regional Screening Level
SAIC	Science Applications International Corporation

ACRONYMS AND ABBREVIATIONS

SARA	Superfund Amendments and Reauthorization Act
SB	subsurface soil
SCS	Soil Conservation Service
SOP	Standard Operating Procedure
SS	surface soil
SVOC	semivolatile organic compound
TAL	target analyte list
TB	trip blank
TCEQ	Texas Commission on Environmental Quality
TCL	Target Compound List
TCLP	toxicity characteristic leaching procedure
^{Tot} Soil _{Comb}	Tier 1 Protective Concentration Limits for residential soil, 30-acre source area for direct contact
TPH	total petroleum hydrocarbon
TPWD	Texas Parks and Wildlife Department
TRRP	Texas Risk Reduction Program
TWDB	Texas Water Development Board
UCL	upper confidence limit
UFP-QAPP	Uniform Federal Policy for Quality Assurance Project Plan
µg/kg	microgram(s) per kilogram
UJ	Data qualifier indicating that the analyte was not detected above the report sample limit of quantitation (LOQ). However, the reported LOQ is approximate and may or may not represent the actual LOQ necessary to accurately and precisely measure the analyte in the sample.
U.S.	United States
USAEC	U.S. Army Environmental Command
USDHHS	U.S. Department of Health and Human Services
USEPA	U.S. Environmental Protection Agency
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
VOC	volatile organic compound
VSP	Visual Sample Plan

EXECUTIVE SUMMARY

The United States (U.S.) Army Environmental Command (USAEC) has retained Cape Environmental Management Inc (CAPE) to conduct a Remedial Investigation (RI) at Far East Illegal Dump Site (CCFTBL-001). The Far East Illegal Dump Site (the Site) is located in far eastern Fort Bliss (FTBL), approximately 15 miles northeast of the main cantonment area.

The 2014 Preliminary Assessment (PA) identified several partially obscured waste piles at the site. Based on PA soil sample results, further investigation of arsenic and lead were recommended depending on whether there may be any future changes in site land use planned (OTIE, 2014). Following the PA, a fence was installed around the wastes. The area within the fenced boundary of the Site covers approximately 2.24 acres.

RI fieldwork was conducted between March 3, 2017, and March 7, 2017. The investigation activities included a visual survey of the investigation area and surface and subsurface soil sampling. The visual survey identified two areas with waste/debris that were located outside the site fence line. During the RI, soil sampling was conducted in the surface (0.0 to 0.5 feet below ground surface [bgs]) soil and subsurface (2 to 3 feet bgs) soil. Within the site, fenced boundary samples were collected from 10 grids. Surface soil samples consisted of ten 15-point multi-incremental (MI) surface soil samples. Subsurface soil samples were collected at the location with the highest organic vapor analyzer, photoionization detector (OVA-PID) reading from each grid. Discrete surface soil samples were also collected at the two areas with waste/debris located outside of the site fence line. Surface and subsurface discrete background soil samples were also collected from three locations in the vicinity of the site. All samples were submitted to the laboratory for Target Compound List (TCL) volatile organic compounds (VOCs), TCL semivolatile organic compounds (SVOCs), target analyte list (TAL) metals, TCL pesticides, TCL herbicides, total petroleum hydrocarbons (TPHs) and polychlorinated biphenyls (PCBs) analysis.

Sample results were compared against the most stringent human health or ecological screening values. Human health screening values are the Texas Risk Reduction Program (TRRP) Tier 1 protective concentration limits (PCLs) for residential soil; 30-acre source and ecological screening values are the Texas Commission on Environmental Quality's (TCEQ's) Ecological Benchmark Soil Table. No organic constituents were detected above human health or ecological screening levels in any sample. Six metals were detected above human health screening values and/or ecological screening values in soil. Metals detected in surface soil were chromium, lead, selenium, and mercury; those detected in subsurface soil were arsenic, barium, lead, selenium, and mercury. Those metal detections were also compared against the TRRP Texas-Specific Soil Background Concentrations. At least one chromium, lead, and selenium detection exceeded the associated TRRP Texas-Specific Soil background concentration.

The fate and transport mechanisms that were evaluated focused only on metals (chromium, lead, and selenium). The mobility of metals is directly related to their solubility in water or other fluids and to pH and redox conditions. In the absence of fluids to mobilize and transport metals, virtually no transport is possible. Even if fluids are present, metals will be significantly mobilized only under favorable pH and redox conditions. Movement of metals also is controlled by the adsorption and redox state of the metal. Because the elevated chromium and lead concentrations in the surface

soil decreased in concentration as compared to associated subsurface soil sample locations, little downward migration has occurred. For selenium, the site concentrations were consistent with site-specific background concentrations, so no apparent horizontal transport is observed. Comparing surface and subsurface soil selenium detections at the site, the concentrations do not consistently increase or decrease vertically.

The Baseline Risk Assessment consists of three major components: selecting chemicals of potential concern (COPCs), the Human Health Risk Assessment (HHRA), and the Ecological Risk Assessment (ERA). For COPC selection, three metals (chromium, lead, and selenium) were present at a maximum detected concentration that was greater than state-specific background. Therefore, those metals were further evaluated. For chromium, the site mean/median concentration calculated by the Wilcoxon Ranked Sum Test is less than the TRRP Texas-Specific Background concentration. For lead, TCEQ's Tier 2 PCL equations recalculated the PCL for residential soil, protection of groundwater (^{GW}Soil_{Ing}) screening level using a soil-water distribution coefficient (K_d) value representative of the pH from Fort Bliss (instead of the generic K_d value). The Tier 2 PCL for lead was determined to be 34.8 milligrams per kilogram (mg/kg). The 95 percent Upper Confidence Limit (UCL) for surface soil lead concentrations was determined to be less than the Tier 2 PCL at 25.7 mg/kg. For selenium, the maximum detected selenium concentration (2.3 mg/kg) is less than three times the mean of the site-specific background samples (5.0 mg/kg). Therefore, no COPCs were identified in the Risk Assessment.

A site-specific conceptual site model (CSM) was developed to identify complete exposure pathways for human and ecological receptors. For the HHRA, because no COPCs were identified in soil, all soil exposure pathways are incomplete. Due to the lack of surface water, the surface water and sediment exposure pathways were also incomplete for all human receptors. Lastly, the groundwater exposure pathways were incomplete for all receptors because groundwater occurs approximately 300 feet bgs; no contaminants are expected to reach groundwater; there are no groundwater wells on site; and the nearest groundwater wells are 2.5 miles away. For the ERA, no chemicals of potential ecological concern (COPECs) were identified in environmental media at the Site. As a result, there are no complete exposure pathways, and no unacceptable risks to environmental receptors.

The work completed for this RI Report was designed to characterize the nature and extent of potential environmental contamination and associated risk to human health and the environment. As evaluated in the risk assessment, site-related metals concentrations (chromium and lead) are limited to surface soil in Grid 3. When the site is evaluated in its entirety using statistical methods, no metals exceed the TRRP Texas-Specific background concentration (chromium) or the Tier 2 PCL (lead). Selenium concentrations detected during the RI are within the acceptable background range, which is less than three times the maximum site-specific background concentration. Therefore, nature and extent of potential environmental contamination is complete. Based on the risk assessment conclusions, there is no unacceptable risk to human health or environmental receptors as a result of illegal dumping at the Far East Illegal Dump Site.

Therefore, no future work to address potential environmental contamination is recommended. However, several debris piles were noted during RI fieldwork, both inside and outside of the site fence. Some of the debris piles were also noted to contain sharps and syringes, which are a safety hazard for anyone who accesses the site or its vicinity. Therefore, removal of the debris, minimally outside of the site fence, is recommended to address safety concerns.

CHAPTER 1 INTRODUCTION

This Remedial Investigation (RI) Report documents the results of the environmental investigation conducted at the Far East Illegal Dump Site (CCFTBL-001) located at Fort Bliss (FTBL), Texas. Cape Environmental Management Inc (CAPE) is submitting this report in fulfillment of the requirements of Contract No. W91ZLK-13-D-0003, Task Order Number 0003, with the United States (U.S.) Army Environmental Command (USAEC). The RI has been conducted in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986 and its governing regulations, and in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) with regulatory coordination with the Texas Commission on Environmental Quality (TCEQ).

1.1 PURPOSE OF REPORT

This RI Report summarizes previous investigation activities and presents the methods and results of the current field investigation, sample analyses, and data verification. In March 2014, a Preliminary Assessment (PA) was conducted by Oneida Total Integrated Enterprises, Inc. (OTIE), and it identified several partially obscured waste piles containing broken glass vials, syringes, cans, bottles, tires, and vehicle parts. The source of the waste and party responsible for dumping are unknown. The suspected illegal dumping is estimated to have occurred more than 10 years ago, based on available aerial images. The PA concluded that further investigation of arsenic and lead may be warranted based on the limited sample results generated during the PA and depending upon whether there may be any future changes in site land use. Following the PA, a fence was installed around the wastes. The area within the fenced boundary of the site covers approximately 2.24 acres. The intent of the RI is to characterize site conditions, determine the nature and extent of contamination, and assess the site's risk to human health and the environment.

This RI report has been prepared in accordance with the U.S. Environmental Protection Agency (USEPA) Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA (USEPA, 1988).

1.2 SITE BACKGROUND

1.2.1 Site Description

The Site is located in far eastern FTBL, approximately 15 miles northeast of the main cantonment area (**Figure 1-1**). Based on previous findings, the Site is estimated to be approximately 2.24 acres. Access to the Site is restricted by a fence constructed on the site boundary.

1.2.2 Site History

There is very little documentation on the history of Site activities. According to a 2006 Memorandum to File (FTBL, 2006), a request was issued for Industrial Hygiene Services and Environmental Health Services at William Beaumont Army Medical Center to perform an inspection of a training site approximately 24 miles from FTBL. No information is available on the historic operation or the source of the illegal dumping.

1.2.3 Previous Investigations

A PA was performed by OTIE in March 2014 at the Site. The PA documented several low piles of weathered partially buried debris (empty broken medicine bottles, old syringes, and needles, as well as old cans, various bottles, and vehicle tires and parts), that might pose an environmental health and safety hazard at the Site. Through visual observation, the debris appeared to have been dumped on the ground surface with no excavation or trenched burial. Over time the waste piles had become partially covered and mixed with wind-blown deposits, scattered desert scrub, and vegetation growing through the piles.

The PA report detailed the planning and collection process for 12 soil samples; six surface soil (SS = 0-6 inches) and six sub-surface soil (SB = 6-24 inches) samples. Refer to **Figure 1-2** for location of the soil samples collected during the PA. The samples were analyzed for volatile organic compounds (VOCs) using USEPA method SW-846 8260; semi-volatile organic compounds (SVOCs) using USEPA method SW-846 8270; pesticides using USEPA method SW-846 8081A; herbicides using USEPA method SW-846 8151A; polychlorinated biphenyls (PCBs) using USEPA method SW-846 8082; eight Resource Conservation and Recovery Act (RCRA) Metals using USEPA method SW-846 6020; Reactivity for Cyanide using USEPA method SW-846 7.3.3; Reactivity for sulfide using USEPA method SW-846 7.3.4; Corrosivity using USEPA method SW-846 9045B; Ignitability using USEPA method SW-846 1010A; and Total Petroleum Hydrocarbons (TPHs) by Texas method 1005/1006. Analytical results from the PA are summarized in **Table 1-1**.

The soil sampling results at the Site were predominantly below laboratory detection limits for the majority of samples. Sampling results for several metals (barium, cadmium, lead, mercury, selenium, and silver) exhibited concentrations below USEPA screening levels for residential soils in all samples. Arsenic exceeded the USEPA screening levels for residential soils of 0.67 milligrams per kilogram (mg/kg) in all samples, and slightly exceeded the 3.0 mg/kg industrial level in surface soils at SS-02 (4.37 mg/kg) and SS-04 (3.41 mg/kg). However, in all samples, arsenic remained below the Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP) Texas-Specific Soil Background level of 5.90 mg/kg (Conner et al., 1975).

The USEPA screening tables do not list a screening level for chromium. Results for chromium ranged from 3.35 mg/kg in SB-05 to 24.7 mg/kg in SS-02. All sample analytical results show chromium concentrations below Texas background listed as 30 mg/kg. Analytical results show lead below the USEPA residential soil screening level of 400 mg/kg in all samples except SS-03, which exceeded the industrial screening level of 800 mg/kg with a concentration of 875 mg/kg. Seven samples exhibited lead levels above the TRRP Texas-Specific background of 15 mg/kg: SB-01 – 48.2 mg/kg; SS-02 – 280 mg/kg; SB-02 – 48.2 mg/kg; SS-03 – 875 mg/kg; SB-03 – 29.7 mg/kg; SS-04 – 134 mg/kg; and SB-04 – 145 mg/kg.

Mercury concentrations were less than both the USEPA residential screening level of 9,400 micrograms per kilogram (µg/kg) and the state background (40 µg/kg) in all samples except for SS-03, which was below USEPA screening levels, but slightly exceeded the statewide background with a concentration of 40.2 µg/kg.

No samples exhibited concentrations of PCBs, VOCs, SVOCs, pesticides, or herbicides at or above the USEPA screening limits for residential soils. USEPA does not have screening levels for TPH; therefore, TRRP Tier 1 Protective Concentration Levels (PCLs) were used for the TPH evaluation.

Only one surface soil sample, SS-06, exhibited the presence of TPH. The PA photo log shows that the SS/SB-06 soil sample was collected at a spot of stained, lumpy soil, which could be related to material such as a small dump of oil or heavy oily substance, or decomposing oily rags.

All samples showed no reactive cyanide or sulfide constituent. Ignitability was negative for all samples. Analysis of each sample's pH indicated that all samples were noncorrosive, i.e., neither highly acidic nor highly basic.

The PA concluded that, based on the limited sample results generated during this PA and depending on whether there may be any future changes in site land use planned, further investigation of arsenic and lead might be warranted (OTIE, 2014). All other metal compound concentrations were below USEPA residential soil screening levels.

1.3 REPORT ORGANIZATION

Chapters 2 through 7 of this RI Report present an overview of the environmental setting at the Site, the methods used in conducting the RI, and the site-specific RI results. The contents of this RI Report are summarized below:

- Chapter 1. Introduction – Identifies the purpose of this study, describes the site background, and summarizes previous studies.
- Chapter 2. Study Area Investigation – Presents general information on the site and surrounding area.
- Chapter 3. Physical Characteristics of the Study Area – Presents the RI investigation strategy, RI field investigation methods and results, and data verification.
- Chapter 4. Nature and Extent of Contamination – Presents the nature and extent of the contaminants detected.
- Chapter 5. Contaminant Fate and Transport – Presents a discussion of the fate and transport of the contaminants detected at the Site.
- Chapter 6. Baseline Risk Assessment – Presents the potential risk to human health and the environment from the contaminants detected at the Site.
- Chapter 7. Summary and Conclusions – Presents a summary of the RI Report and presents conclusions based on the RI effort.
- Chapter 8. References – Provides a list of references used in preparing the RI Report.

Table 1-1 Previous Investigation Analytical Data Summary
Far East Illegal Dump Site, Fort Bliss, Texas

Location ID	USEPA Screening Level Resident Soil ²	USEPA Screening Level Industrial Soil ²	Texas State Background Levels ³	SS-01	SB-01	SS-02	SB-02	SS-03	SB-03	SS-04	SB-04	SS-05	SS-05 FD	SB-05	SS-06	SB-06	SB-06 FD
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	0.67	3.00	5.90	1.59	2.19	4.37	2.19	2.92	1.72	3.41	2.73	1.30	1.29	1.32	1.83	1.78	1.71
Barium	15,000	220,000	300	159	43.8	61.9	43.8	333	53.3	99.7	140	26.2	27.4	30.1	35.8	40.2	37.3
Cadmium	70	980	N/A	0.308 J	0.948	6.53	0.948	3.21	0.264 J	3.09	3.87	0.0481 J	0.490 U	0.0504 J	0.477 U	0.483 U	0.485 U
Chromium	N/A	N/A	30	3.96	18.6	24.7	18.6	18.0	8.08	18.7	12.0	4.00	3.83	3.35	4.15	4.06	4.39
Lead	400	800	15	7.00	48.2	280	48.2	875	29.7	134	145	4.25	4.08	3.15	4.37	4.33	4.69
Mercury	9.4	40	0.040	0.00201 J	0.00547	0.00611	0.00547	0.0402	0.00186 J	0.0141	0.0187	0.00350 U	0.00342 U	0.00359 U	0.00326 J	0.00398	0.00386
Selenium	390	5,800	0.3	0.318 J	0.361 J	0.370 J	0.361 J	0.324 J	0.233 J	0.288 J	0.268 J	0.325 J	0.230 J	0.312 J	0.394 J	0.302 J	0.374 J
Silver	390	5,800	N/A	0.498 U	0.506 U	0.199 J	0.506 U	2.14	0.132 J	0.0830 J	0.118 J	0.475 U	0.490 U	0.482 U	0.477 U	0.483 U	0.485 U

- Notes:
1. Data and screening levels are from the *Draft Preliminary Assessment Report, Preliminary Assessment and Fencing For Illegal Dump Site at Far East Fort Bliss*, Fort Bliss, El Paso County, Texas, August 2014 (OTIE, 2014)
 2. United States EPA Region 6 Regional Screening Level (RSL) website http://www.epa.gov/region6/6pd/rcra_c/pd-n/screen.htm
 3. Connor, Jon J. and Hansford T. Shacklette, et al. Background Geochemistry of Some Rocks, Soils, Plants, and Vegetables in the Conterminous United States. Geological Survey Professional Paper 574-F, U.S. Geological Survey. United States Government Printing Office, Washington. 1975.

FD – field duplicate
J – analyte was positively identified, but the associated numerical value is estimated
mg/kg – milligram(s) per kilogram
SB – subsurface soil (6 – 24 inches below ground surface)
SS – surface soil (0 – 6 inches below ground surface)
U – analyte was analyzed for, but not detected at the specified reporting limit

Bold results indicate positively detected value
Highlighted results indicate result exceeds USEPA screening level for resident soil
Italicized results indicate result exceeds USEPA screening level for industrial soil
Underlined results indicate result exceeds background levels

Figure 1-1
Site Location Map
Far East Illegal Dump
Site, El Paso, Texas



Far East Illegal
Dump Site



Fort Bliss Roads



Other Roads

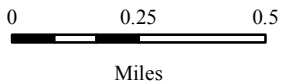


Route Gray

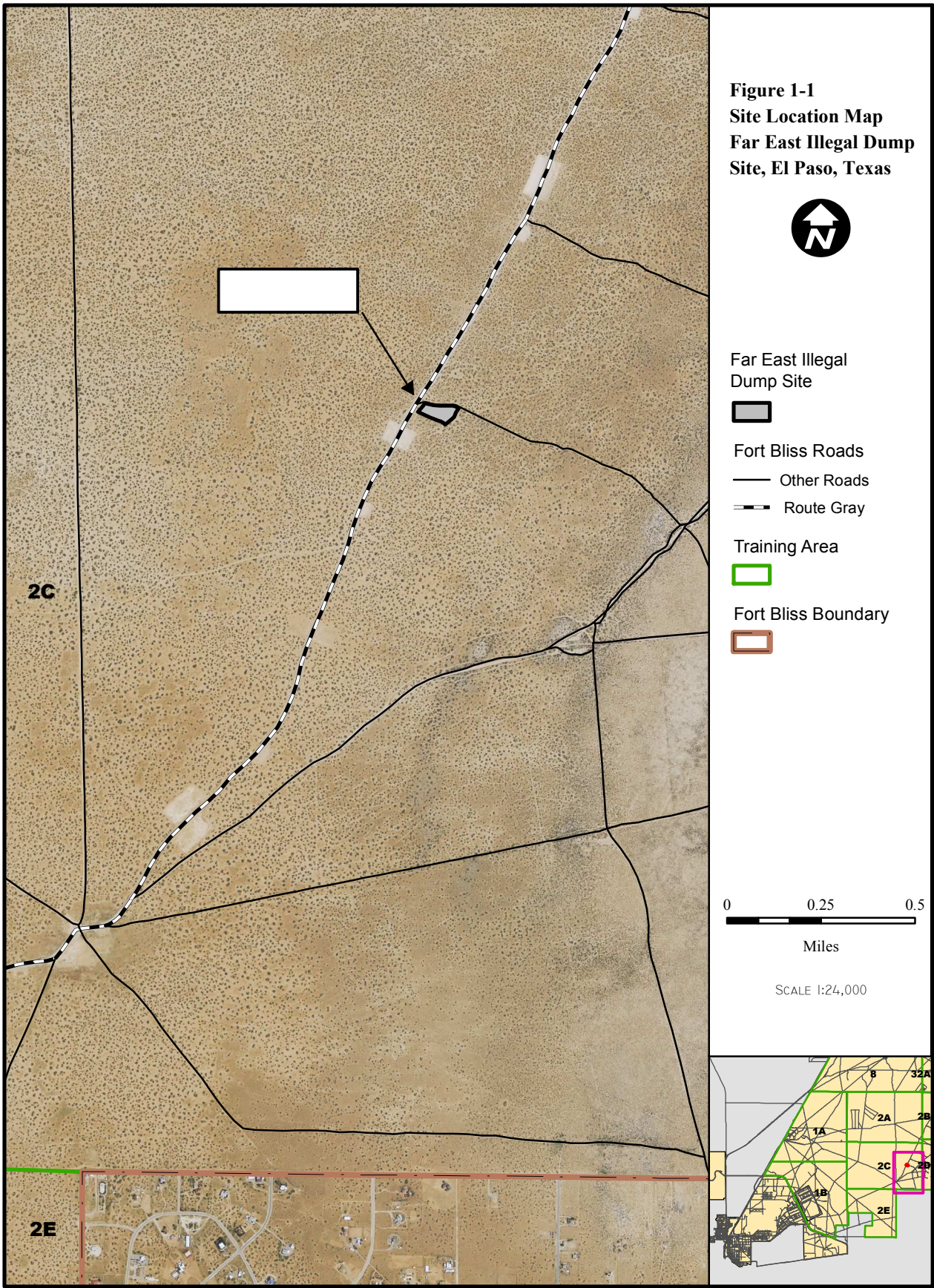
Training Area



Fort Bliss Boundary





SCALE 1:24,000

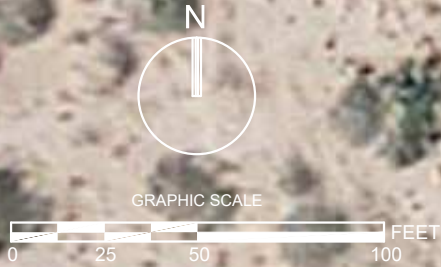





Legend

 2014 Preliminary Assessment Sample Point

 Wire Fence



	Department of the Army	SHEET TITLE	REVISIONS:		CONTRACT NO: W91ZLK-13-D-0003	JOB NO: 21003.003	SHEET NUMBER: FIGURE 1-2																						
	PROJECT NAME ENVIRONMENTAL REMEDIATION MULTIPLE SITES AT FORT BLISS, TX	PREVIOUS INVESTIGATIONS, 2014 PRELIMINARY ASSESSMENT SAMPLE LOCATIONS, FAR EAST ILLEGAL DUMP SITE, FORT BLISS, TEXAS	<table border="1"><thead><tr><th>No.</th><th>Date</th><th>By</th><th>Chk</th><th>Remarks</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></tbody></table>	No.	Date	By		Chk	Remarks																				
No.	Date	By	Chk	Remarks																									
					REVIEWED BY: M.MILLER	DATE: AUGUST 2017																							
					SCALE: AS SHOWN	FILE NAME:																							

CHAPTER 2

STUDY AREA INVESTIGATION

This chapter presents general information on the Site and the surrounding area.

2.1 SURFACE FEATURES

The site is relatively flat with low-relief-type mounding/undulating topography roughly one to four feet in height, with scattered desert scrub brush throughout. There is no evidence of erosion or other movement or transport of the suspected illegally dumped waste piles from the Site.

2.2 CONTAMINANT SOURCE INVESTIGATION

The suspected contaminant source at the site is illegally dumped waste materials. Based on previous findings (OTIE, 2014), the presence of low-level arsenic and lead contamination at the Site is already established. Subchapter 1.2.3 provides a summary of the previous investigations at the Site.

2.3 CLIMATE

El Paso has a hot desert climate with very hot summers that have little to no humidity, and mild dry winters. Rainfall averages 9.4 inches (240 millimeters) per year, much of which is caused by the monsoon season (i.e., heavy summer rains), which occurs between the months of July and September. During this period, southerly and southeasterly winds carry moisture from the Pacific Ocean, the Gulf of California, and/or the Gulf of Mexico into the region. When this moisture moves into El Paso and areas to the southwest, orographic lift from the mountains, combined with strong daytime heating, causes thunderstorms, some severe enough to produce flash flooding and hail across the region. El Paso monthly mean temperatures range from 45.1 degrees Fahrenheit (°F) (7.3 degrees Celsius [°C]) in January to 83.3 °F (28.5 °C) in July, with the warmest highs typically occurring in June. El Paso annually averages 109 days at or above 90 °F (32 °C) and 20 days above 100 °F (38 °C). The city's record high is 114 °F (46 °C), and its record low is -14 °F (-26 °C) (National Oceanic and Atmospheric Administration [NOAA], 2004).

The sun shines in El Paso an average of 302 days per year and during 83 percent of the daylight hours, according to the National Weather Service. Due to its dry climate, El Paso often experiences wind and dust storms during the spring, usually starting in March and lasting into early May. Average wind speed of these wind and dust storms can reach approximately 27 miles per hour (mph) (43 kilometers per hour [km/hr]), and wind gusts within the storm have been measured at over 75 mph (120 km/hr). Wind storms such as these can kick up large amounts of sand and could cause a loss of visibility (Novlan *et al.* 2007).

El Paso sits at an elevation of 3,800 feet (1,200 meters [m]) and can receive snow during the winter months. Past records show that storms have dropped as much as 1 foot of snow in the area. El Paso averages 60 nights per year below freezing.

2.4 SURFACE WATER

No surface water is present at the site or in the vicinity.

2.5 GEOLOGY AND SOIL

Geographically, the site is located within the Hueco Bolson geographic basin, just east of the Franklin Mountains. The Hueco Bolson, which is composed of basin-fill deposits of silt, sand, gravel, and clay, has a maximum thickness of 9,000 feet in some areas. The surface geology at the site consists of Young Quaternary deposits.

The boundary of the Site is composed of the Hueco-Wink association soils. This soil association is characterized by nearly level and gently sloping soils having a fine sandy loam subsoil and are moderately deep over caliche (Soil Conservation Service [SCS], 1971). The individual soils represented include the Hueco loamy fine sand with 1 to 3 percent slopes, and Cavalry loamy fine sand with 1 to 3 percent slopes, and pH of the Site soil is approximately 7.6 (National Resources Conservation Service [NRCS], 2017). Additionally, a Site Investigation was conducted at the Open Burn (OB) Site II at Biggs Army Airfield at Fort Bliss. Soil samples from the Site Investigation exhibited pH between 7.5 and 9 (CAPE, 2017).

2.6 GROUNDWATER

Groundwater below the site is part of the Hueco Bolson Aquifer (Texas Water Development Board [TWDB], 2015a). The upper portion of the Hueco Bolson contains fresh to saline water, ranging from less than 1,000 to 3,000 milligrams per liter of total dissolved solids. The Hueco Bolson is the principal aquifer for the El Paso area and Ciudad Juarez, Mexico. Water levels are on the decline due to municipal pumping in the Hueco Bolson (TWDB, 1987). Recharge to the Hueco Bolson occurs along the mountains bordering the bolson, and at times locally along the Rio Grande. While the natural groundwater flow was from the areas of recharge to points of discharge, the declining water levels and pumping have changed the direction and rate of flow over the years to the centers of pumping.

There are several TWDB wells located in the vicinity of the Site; however, no wells are recorded within 2.5 miles of the Site (TXGRID_ID 49078). State Well Number 49079A, 49075A, 49152A, 49152B, 49152D, and 49152E are located in the adjacent TWDB grids approximately 2.5 - 5 miles south and east of the Site. These wells vary in total drilled depth from 450-550 feet below ground surface (bgs), and are completed in the Hueco-Mesilla Aquifer. Measured groundwater levels at these wells varied from 360 - 390 feet bgs.

2.7 DEMOGRAPHICS

The Site is located approximately 17 miles northeast of the City of El Paso, Texas. According to U.S. Census Data, the City of El Paso is 255 square miles in size and had a 2010 census population of 649,121, and the population density of 2,546 persons per square mile (U.S. Census, 2013). According to aerial photography, the nearest residential development is located approximately 2 miles south of the Site, outside the FTBL boundary.

2.8 ECOLOGY

The Site is not located within a national wildlife refuge, national park, or national forest or grassland according to the U.S. Fish and Wildlife Service (USFWS) National Wildlife Refuge System Map (USFWS, 2017c), the National Park Service (NPS) Interactive System Map (NPS, 2017), and the U.S. Forest Service (USFS) Map Viewer (USFS, 2017). The National Wetlands

Inventory does not list any wetland data for the site (USFWS, 2017d), and no wetland areas were encountered during the RI.

In general, the wildlife noted to live within this soil type include jackrabbits, cottontail rabbits, coyotes, bobcats, mourning doves, blue quail, road runners, prairie rattlesnakes, and various species of lizards and small rodents. During the site walk, small burrows and prints were observed across the area. Lizards were observed on site, but no other animals were seen. According to the Texas Parks and Wildlife Department (TPWD) threatened and endangered species database, there are 15 federally and/or state-listed species possibly present in El Paso County; however, three of these species, the gray wolf (*Canis lupus*), the black-footed ferret (*Mustela nigripes*), and the Rio Grande silvery minnow (*Hybognathus amarus*), have historically been extirpated from the county, and one species, the bluntnose shiner (*Notropis simus simus*) is extinct (TPWD, 2017). The USFWS Environmental Conservation Online System identifies six federally and/or state-listed species, all of which were identified in the TPWD threatened and endangered species database (USFWS, 2017b). According to the current data in the USFWS Critical Habitat for Threatened and Endangered Species Online Mapper, there are no federally designated critical habitat areas at the Site (USFWS, 2017a). **Table 2-1** below summarizes the federally and/or state-listed species for El Paso County, Texas. Due to the remote nature of the Site, some of the threatened or endangered species presented in **Table 2-1** could be found at the site. Under the Ecological Risk Assessment (Subchapter 6.3), a TRRP Tier 1 Exclusion Criteria Checklist was completed to determine the existence of complete and potentially significant ecological exposure pathways at the site. The site met the TRRP Tier 1 Exclusion Criteria. Refer to Subchapter 6.3 and **Appendix D** for additional information.

2.9 CURRENT AND PROJECTED LAND USE

The Site is fully contained within the boundaries of a three-strand, 12.5-gauge, smooth-wire fence with a doublewide gate, installed following the 2014 PA. It is located in an undeveloped area, in far eastern FTBL, approximately 15 miles northeast of the main cantonment area. The Site is not currently in use. It is projected that the land use for this area will remain unchanged.

**Table 2-1 Threatened and Endangered Species for El Paso County, Texas
Far East Illegal Dump Site, Fort Bliss, Texas**

Group	Name	Federal Status	State Status	Habitat
Birds	American Peregrine Falcon (<i>Falco peregrinus anatum</i>)	Delisted	Threatened	Year-round resident and local breeder in west Texas, nests in tall cliff eyries; also, migrant across state from more northern breeding areas in U.S. and Canada, winters along coast and farther south; occupies wide range of habitats during migration, including urban, concentrations along coast and barrier islands; low-altitude migrant, stopovers at leading landscape edges such as lake shores, coastlines, and barrier islands.
	Interior Least Tern (<i>Sterna antillarum athalassos</i>)	Endangered	Endangered	Subspecies is listed only when inland (more than 50 miles from a coastline); nests along sand and gravel bars within braided streams, rivers; also known to nest on man-made structures (inland beaches, wastewater treatment plants, gravel mines, etc.); eats small fish and crustaceans, when breeding, forages within a few hundred feet of colony
	Mexican Spotted Owl (<i>Strix occidentalis lucida</i>)	Threatened	Threatened	Remote, shaded canyons of coniferous mountain woodlands (pine and fir); by day roosts in densely vegetated trees, rocky areas, or caves
	Northern Aplomado Falcon (<i>Falco femoralis septentrionalis</i>)	Endangered	Endangered	Open country, especially savanna and open woodland, and sometimes in very barren areas; grassy plains and valleys with scattered mesquite, yucca, and cactus; nests in old stick nests of other bird species
	Southwestern Willow Flycatcher (<i>Empidonax traillii extimus</i>)	Endangered	Endangered	Thickets of willow, cottonwood, mesquite, and other species along desert streams
	Western Yellow-billed Cuckoo (<i>Coccyzus americanus occidentalis</i>)	Threatened		Status applies only to western population beyond the Pecos River Drainage; breeds in riparian habitat and associated drainages; springs, developed wells, and earthen ponds supporting mesic vegetation; deciduous woodlands with cottonwoods and willows; dense understory foliage is important for nest site selection; nests in willow, mesquite, cottonwood, and hackberry; forages in similar riparian woodlands
Mammals	Black bear (<i>Ursus americanus</i>)		Threatened	Bottomland hardwoods and large tracts of inaccessible forested areas
Reptiles	Chihuahuan Desert lyre snake (<i>Trimorphodon vilkinsonii</i>)		Threatened	Mostly crevice-dwelling in predominantly limestone-surfaced desert northwest of the Rio Grande from Big Bend to the Franklin Mountains, especially in areas with jumbled boulders and rock faults/fissures; secretive; egg-bearing; eats mostly lizards
	Mountain short-horned lizard (<i>Phrynosoma hernandesi</i>)		Threatened	Diurnal, usually in open, shrubby, or openly wooded areas with sparse vegetation at ground level; soil may vary from rocky to sandy; burrows into soil or occupies rodent burrow when inactive; eats ants, spiders, snails, sowbugs, and other invertebrates; inactive during cold weather; breeds March-September
	Texas horned lizard (<i>Phrynosoma cornutum</i>)		Threatened	Open, arid and semi-arid regions with sparse vegetation, including grass, cactus, scattered brush or scrubby trees; soil may vary in texture from sandy to rocky; burrows into soil, enters rodent burrows, or hides under rock when inactive; breeds March-September
Plants	Sneed's pincushion cactus (<i>Escobaria sneedii</i> var <i>sneedii</i>)	Endangered	Endangered	Xeric limestone outcrops on rocky, usually steep slopes in desert mountains, in the Chihuahuan Desert succulent shrublands or grasslands; flowering April-September (peak usually in April, sometimes opportunistically after summer rains; fruiting August - November

Source: Texas Parks and Wildlife Department (TPWD) Threatened and Endangered Species Database:
<http://tpwd.texas.gov/gis/rtest/>

CHAPTER 3

PHYSICAL CHARACTERISTICS OF THE STUDY AREA

Field activities and procedures implemented during the Site investigation are summarized in the subchapters below. The *Uniform Federal Policy Quality Assurance Project Plan (UFP QAPP) – Remedial Investigation at Far East Illegal Dump Site* (CCFTBL-001 UFP-QAPP) (CAPE, 2016), specifies the sampling rationale and approach for the site-specific investigation and presents the standard field operating procedures that were followed. A summary of the investigation approach is presented in Subchapter 3.1 below. Subchapter 3.2 presents the field investigation results and Subchapter 3.3 discusses data verification.

3.1 OVERALL INVESTIGATION STRATEGY

A preliminary conceptual site model (CSM) was developed for the Site in the CCFTBL-001 Uniform Federal Policy – Quality Assurance Project Plan (UFP-QAPP). The preliminary CSM identified three potentially complete exposure pathways (ingestion, dermal contact, and inhalation of particulates) for low-level concentrations of metals (arsenic and lead) present in surface and subsurface soils at the Site. The low-level characterization of the contaminants was based on soil sample results collected during the PA. As discussed in the CCFTBL-001 UFP-QAPP, the depth to groundwater at the site is approximately 360–390 feet bgs. Because the anticipated contaminants are relatively immobile in an arid environment, it is highly unlikely they would migrate to the deep groundwater at the site. Therefore, the groundwater exposure pathway was assumed to be incomplete.

The CCFTBL-001 UFP-QAPP developed investigation activities based on USEPA's Data Quality Objectives (DQO) process (USEPA, 2006). Because the overall goal of this project is to obtain acceptance of an RI in compliance with CERCLA, as amended, and Department of Defense (DoD) and Army regulations and guidance, project DQOs were identified in the CCFTBL-001 UFP-QAPP and are summarized below:

- Obtain data to sufficiently characterize the nature and extent of any contamination present at the Site
- Evaluate potential hazards or risks related to identified contamination
- Assess human health and ecological risks from data obtained during the RI
- Facilitate a possible Feasibility Study.

3.1.1 Sampling Rationale

Based on the preliminary CSM and project DQOs, an approach was developed in the CCFTBL-001 UFP-QAPP to sufficiently characterize the nature and extent of contamination. The technical approach included:

- Conduct a visual survey of the site to determine if wastes are observed outside the fenced area. Based on results of the visual survey, the site footprint would potentially be expanded and sample locations refined.

- Collect multi-incremental (MI) soil samples from surface soil within 10 grid areas spanning the defined site boundary. Surface soil samples would be collected from 0 – 0.5 feet bgs at 15 discrete locations within each grid.
- Collect discrete subsurface soil samples beneath areas where surface debris is present, or if no debris is present within a grid, from beneath a randomly selected discrete surface soil sample location. Subsurface soil samples will be collected from 2-3 feet bgs.
- Collect additional discrete surface soil or subsurface soil samples from up to six locations, as necessary, to delineate the horizontal or vertical extent of contamination. The additional sample locations may be outside the fence.
- Collect three background surface soil samples and three background subsurface soil samples from outside the investigation area to establish naturally occurring metals concentrations.

The specific processes and procedures used to conduct the RI are detailed in the CCFTBL-001 UFP-QAPP (CAPE, 2016). The location of sampling points and the quantity of samples were determined using Visual Sample Plan (VSP) software during UFP-QAPP development.

3.1.2 Analytical Parameter Selection

Target compounds were identified based on analytical groups associated with general refuse and industrial waste. The CCFTBL-001 UFP-QAPP presents the analytical methods and laboratory reporting limits. Surface and subsurface soil would be analyzed for Target Compound List (TCL) VOCs by USEPA SW 5035/8260; TCL SVOCs by USEPA SW 3541/8270; TPH by TX method 1005/1006; PCBs by USEPA SW 3541/8082; TCL pesticides by USEPA SW 3541/8081; TCL herbicides by USEPA SW 3550/8151; and Target Analyte List (TAL) metals by USEPA SW 6020/7000.

The CCFTBL-001 UFP-QAPP indicates that screening of data collected from the RI would occur against the most conservative screening value from the applicable Human Health Screening Values for residential soil and protection of groundwater, and from the Ecological Screening Values. The Human Health Screening Values were selected from the TCEQ TRRP, Tier 1 PCLs for residential soil, 30-acre source area for direct contact ($^{Tot}Soil_{Comb}$) and protection of groundwater ($^{GW}Soil_{Ing}$). The CCFTBL-001 UFP-QAPP-identified ecological screening values were from the ecological benchmarks from TCEQ Ecological Risk Assessment Program, Conducting Ecological Risk Assessments at Remediation Sites in Texas, January 2017 Ecological Benchmark Soil Table (RF-263-B). The ecological screening value is the lowest value of earthworm and plant. If the ecological value was lower than the TRRP Texas-Specific Background Concentration (30 TAC 350.51[m]), the ecological PAL is then the TRRP Texas-Specific Background Concentration.

Additionally, the CCFTBL-001 UFP-QAPP indicated that if analytes were detected at concentrations greater than screening values, those analytes would also be compared to maximum background concentrations to determine if the measured concentrations are evidence of a release, or are consistent with naturally occurring concentrations. The TRRP Texas-Specific Background Concentrations and the maximum site-specific background sample results (Subchapters 4.1.3 and 4.2.2) are the background concentration values used in the background comparison.

3.2 FIELD INVESTIGATION

RI fieldwork was conducted between March 3, 2017 and March 7, 2017. The investigation activities included a visual survey of the investigation area and surface and subsurface soil sampling. All field activities were completed in accordance with the approved UFP-QAPP. CAPE completed Daily Quality Control Reports (DQCRs) for each investigation day. The DQCRs included descriptions of the activities conducted and photographs. The DQCRs are included in **Appendix B**.

3.2.1 Visual Survey

A visual survey was conducted on March 2, 2017, prior to initiating intrusive investigation activities. The visual survey was conducted in accordance with the approved UFP-QAPP. Visual surveys were conducted throughout the investigation area at approximate transect spacing of 10-25 feet. Waste/debris were identified within the fence line and are shown on **Figure 3-1**. Debris was noted mainly in the central portion of the site. Debris was observed to consist of glass, car parts, trash, roofing material, and medical waste (i.e., vials, syringes, sharps). Sharps and syringes were noted in two main areas, one in a centralized location and the other on the southern edge of the fence line. Mesquite and other vegetation were noted throughout the Site.

Outside of the Site fence line, waste/debris were observed in two locations, north of Grid 1 and south of Grid 8, as shown on **Figure 3-1**. No other waste/debris were observed outside the Site fence line. Discrete soil samples collected from those locations are discussed in Subchapter 3.2.3.

3.2.2 Soil Sampling

Soil sampling was conducted at the Site to investigate chemical concentrations in the surface (0.0 to 0.5 feet bgs) soil and subsurface (2 to 3 feet bgs) soil. Soil sampling was conducted in accordance with Standard Operating Procedure (SOP) 01 – Soil Sampling and Logging, and SOP-08 – Collection of Quality Assurance/Quality Control Samples, provided in Appendix B of the CCFTBL-001 UFP-QAPP. On March 2, 2017, CAPE marked out 10 grids as designated by the CCFTBL-001 UFP-QAPP and as shown on **Figure 3-2**. CAPE used pin flags to mark out the boundaries of each grid and assigned each grid a number, starting at the north of the site and going left to right and north to south. The following subchapters describe the methods and equipment that were used to collect the surface and subsurface soil samples. **Table 3-1** provides a summary of the soil samples collected during the RI.

3.2.3 Surface Soil Sampling Procedures

CAPE collected ten 15-point MI surface soil samples within each sampling grid between March 2, 2017 and March 3, 2017. Sample collection began at Grid 1 and finished at Grid 10. Refer to **Table 3-1** for the associated sample identifications (IDs). A hand auger was used to collect each MI surface soil sample aliquot from 0.0 to 0.5 feet bgs. Surface soil lithology was observed to be silty sand. Approximately four ounces of soil were taken from each of the 15-point MI sample locations and were combined into a gallon zip-lock bag. Also, a split sample was taken at each point and placed into two separate zip-lock bags. After all 15 points were collected in each grid, an organic vapor analyzer, photoionization detector (OVA-PID) was used to field-screen each of the 15 locations for VOCs. Grab surface soil samples for TCL VOCs and TPH were collected at the location exhibiting the highest OVA-PID detection within each grid. During OVA-PID screening in Grid 4, CAPE detected high PID readings of 9,999 parts per million (ppm); 1,426 ppm; and 25 ppm in the central portion of Grid 4. A rag was observed in the area where the surface

soil sample aliquot exhibited high OVA-PID readings. All other OVA-PID readings collected at the Site were between 0 and 7.0 ppm. The TCL VOCs and TPH sample aliquots were taken from the second zip-lock bag, which was not opened during field screening. Each 15-point MI surface soil sample was submitted to the laboratory for TCL SVOC, TAL metals, TCL pesticides, TCL herbicides, and PCB analysis. Each discrete surface soil sample was also submitted to the laboratory for TCL VOCs and TPH analysis.

Because the visual survey noted two areas with debris outside the existing fence line, discrete surface soil samples were also collected outside the fence line at the identified locations. The first location, North of Grid 1, was located approximately 11 feet north of the Grid 1 fence line, and the second location, South of Grid 8, was located approximately 21 feet south of the Grid 8 fence line. Discrete surface samples were collected from both locations on March 6, 2017. Because no signs of any contamination were observed in any of the subsurface samples collected in Grids 1 through 10 (refer to Subchapter 3.2.4), subsurface soil samples were not collected at the locations outside of the existing fence line. The surface (0 to 0.5 feet bgs) soil samples from the two locations outside of the fence line were submitted to the laboratory for TCL VOCs, TCL SVOCs, TAL metals, TCL pesticides, TCL herbicides, PCB, and TPH analysis.

On March 6, 2017, CAPE collected discrete surface (0 to 0.5 feet bgs) soil samples from three background locations. Background location 1 was located approximately 74 feet north of the Grid 1 fence line, background location 2 was located approximately 80 feet south of the Grid 8 fence line, and background location 3 was located approximately 84 feet east of the Grid 10 fence line. The background surface soil samples were submitted to the laboratory for TCL VOCs, TCL SVOCs, TAL metals, TCL pesticides, TCL herbicides, PCB, and TPH analysis.

3.2.4 Subsurface Soil Sampling Procedures

Using the OVA-PID field screening information from the surface MI soil sampling (Subchapter 3.2.3), one discrete subsurface (2 to 3 feet bgs) soil sample was collected from each grid at the location with the highest OVA-PID reading. Subsurface soil samples were collected between March 3, 2017, and March 6, 2017. Sample collection began at Grid 1 and finished at Grid 10. Refer to **Table 3-1** for the associated sample IDs. A hand auger was used to collect the subsurface soil samples. In Grid 1, auger refusal occurred at 2 feet bgs. CAPE offset the discrete sample location in Grid 1 at 3 feet to the east and encountered auger refusal at 2 feet bgs. The Grid 1 discrete sample location was then offset again, three feet to the west, and auger refusal was encountered again. CAPE exchanged the auger sand bucket for a more open bucket, but auger refusal was still experienced. CAPE observed the soil, and the lithology from 2 to 3 feet bgs changed from a silty sand to a hard-dense lithology, possibly caliche. A k-bar was used to loosen up the caliche to achieve the 3 feet bgs desired sample depth. The dense lithology was observed in all discrete subsurface samples collected at the site. The subsurface (2 to 3 feet bgs) soil samples from the two locations outside of the fence line were submitted to the laboratory for TCL VOCs, TCL SVOCs, TAL metals, TCL pesticides, TCL herbicides, PCB, and TPH analysis.

On March 6, 2017, CAPE collected discrete subsurface (2 to 3 feet bgs) soil samples from the three background locations identified in Subchapter 3.2.3. The background subsurface soil samples were submitted to the laboratory for TCL VOCs, TCL SVOCs, TAL metals, TCL pesticides, TCL herbicides, PCB, and TPH analysis.

3.2.5 Decontamination Procedures

The hand auger was decontaminated between grids using deionized water andalconox powdered soap. Disposable spoons and bags were used to collect the MI samples. All decontamination procedures were conducted in accordance with SOP-07 – Equipment Decontamination, as presented in Appendix B of the CCFTBL-001 UFP-QAPP.

3.2.6 Investigation Derived Waste

Investigation-derived waste (IDW) consisted of three gallons of decontamination water. Decontamination water was placed in a 20-gallon bung-top drum staged on site during the investigation. On March 7, 2017, the decontamination water was sampled for waste characterization in accordance with the CCFTBL-001 UFP-QAPP. The waste characterization sample was submitted to the laboratory for toxicity characteristic leaching procedure (TCLP) VOCs, TCLP SVOCs, TCLP metals, pesticides, herbicides, PCBs, TPH, reactivity, ignitability, and corrosivity. CAPE transferred the 20-gallon drum of decontamination water to Building 622 for staging until waste characterization was completed. Analytical results for the IDW indicated that the IDW results were below regulatory limits (Title 40 Code of Federal Regulations Part 261 Subpart C) and the waste was determined to be non-hazardous. Analytical results for the IDW are included in **Appendix A**. The IDW was transferred to the FTBL Groundwater Treatment Plant on June 20, 2017.

3.2.7 Demobilization

Once all sample collection was completed, all pin flags and temporary marking tape were removed from the site. CAPE installed laths at each grid corner, as a more permanent marker than the pin flags, to maintain grid footprints. CAPE inspected the site to ensure that all sampling debris was cleared from the site.

3.3 DATA VALIDATION

All analytical samples collected for the RI were submitted for analysis at Accutest Laboratories, Inc., Orlando, Florida. Data from the RI were reviewed by CAPE's Senior Chemists and presented in a Quality Assurance Report (QAR), included in **Appendix A**.

The QAR documents that the data validation was prepared in accordance with the *DoD Quality Systems Manual (QSM) for Environmental Laboratories, version 5.0*, July 2013 (DoD QSM 5.0) (DoD, 2013) and the USEPA *Contract Laboratory Program National Functional Guidelines (NFGs) for Data Review* (USEPA, 2016). The assessment includes evaluating the data for precision, accuracy, representativeness, comparability, and completeness (PARCC). The QAR presents findings based upon the comprehensive review and evaluation chain-of-custody documentation; holding times; sample preservation; laboratory control samples (LCSs) recoveries; matrix spike/matrix spike duplicate (MS/MSD) recoveries and reproducibilities; laboratory method blanks (MBs); trip blanks (TBs); initial calibrations and initial calibration verifications; continuing calibration verifications; target compound identification; compound quantitation; initial and continuing calibration blank (ICB/CCB); internal standards and retention times; tuning criteria; second column confirmation; manual integrations; surrogate recoveries; interference check standards; post-digestion spikes; serial dilutions; field duplicates (FDs); and reporting limits.

The QAR noted that the samples for VOCs were collected in pre-weighed vials. The sampling team added additional clear tape over the sample labels to prevent smearing of the labels. This

inadvertently altered the pre-weight of the vials. Therefore, VOC sample weights were estimated. With estimated weights, the results were also estimated. Therefore, all VOC data, except for trip blanks, were qualified “J” for positive results and “UJ” for non-detects. The “J” validation flag indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. The “UJ” validation flag indicates the analyte was not detected above the reported sample limit of quantitation (LOQ). However, the reported LOQ is approximate and may or may not represent the actual LOQ necessary to accurately and precisely measure the analyte in the sample. Refer to the QAR for additional comments on data validation for specific samples. The following subchapters summarize the DQOs for PARCC for the data obtained from the RI.

3.3.1 Precision

Analytical precision is a measurement of the variability associated with duplicate (two) or replicate (more than two) analyses of the same sample in the laboratory. The analytical precision is measured by the Relative Percent Difference (RPD) in the LCS/LCSD and the MS/MSD analyses. Only an LCS was performed, so there is no precision data available from the LCS. Only the SVOCs exhibited an RPD problem between the MS and MSDs. No data were qualified due to RPD recovery problems, so analytical precision is acceptable for the project.

Field precision is a measurement of the total variability associated with duplicate (two) or replicate (more than two) samples collected separately in the field and analyzed together in the laboratory. There were two FDs collected for this project, and both FDs met the CAPE RPD criteria of 100 percent for soil samples for all analytes. Field precision was acceptable.

3.3.2 Accuracy

Accuracy is the degree of agreement found between an observed value and an accepted reference value. Accuracy includes components of random error (variability due to imprecision) and systematic error (bias); components which are due to sampling and analytical operations and are a data quality indicator. Accuracy, therefore, reflects the total error associated with a measurement. A measurement is accurate when the value reported does not differ from the true value. Analytical accuracy is evaluated by measuring the percent recovery of known concentrations of target analytes that are spiked into site-specific samples (MS) or reagent water (LCS) before extraction, at known concentrations. Surrogate recoveries are also used to assess accuracy. LCS recoveries were a problem in several methods. Herbicides especially had surrogate problems, and all herbicides were qualified due to these problems. MS/MSD recoveries were a problem in several of the methods, but a large number of MS/MSDs were performed on non-CAPE samples.

3.3.3 Representativeness

Representativeness is a measure of the degree to which data accurately and precisely represent a characteristic of a population, a parameter variation at a sampling point, a process condition, or an environmental condition. Representativeness was evaluated through the review of holding time criteria, and laboratory method blanks. Representativeness has also been achieved through use of the DoD, and USEPA-approved sampling procedures and analytical methodologies. Samples were collected by CAPE following the procedures detailed in the project-specific UFP-QAPP and submitted for analysis using the USEPA-approved analytical methods detailed in the UFP-QAPP.

Samples were shipped to the laboratory under chain of custody, received intact, and properly preserved. Sample receipt exceptions were noted for the samples in the area of estimated sample weights for the VOCs. Adherence to the procedures described in the UFP-QAPP for this sampling event ensured that the results generated are representative of environmental conditions at the time of sampling.

3.3.4 Comparability

Comparability is a qualitative measure designed to express the confidence with which one data set may be compared with another. Adherence to proper sample collection and handling techniques described in the UFP-QAPP, and the use of the promulgated USEPA analytical methods described by the UFP-QAPP, ensure that this data set would be comparable with another future data set collected under the same conditions and analyzed by the same methods. The estimated sample results for the VOCs will necessitate an estimated comparison to other VOC results.

3.3.5 Completeness

Completeness is calculated from the aggregation of data for each method for any particular sampling event. For each method and each site, the number of valid results, divided by the number of individual analyte results initially planned, expressed as a percentage, determine the completeness for the data set. The objective for completeness for this project is 95 percent. Valid results used to meet completeness objectives are those results that provide defensible estimates of the true concentration of an analyte in a sample. These valid results include data that are not qualified and data for which quality control results indicate qualification is necessary, but which may still be used to meet project objectives. Invalid results are those data for which there is an indication that the prescribed sampling or analytical protocols were not followed. There was no incidence of non-valid data, and the completeness met the 95 percent project criteria.

3.3.6 Data Validation Conclusions

All sample preservation; holding times; chain-of-custody documentation; laboratory blanks; ICB/CCB; internal standards and retention times; tuning criteria; second-column confirmation; manual integrations; interference check standards; and target compound identification were within project and method acceptance criteria, and did not require any qualification of data.

Overall, the quality of the analytical data met the quality control limits established by the project DQOs, the analytical methods, and the data validation criteria.

**Table 3-1 Summary of Soil Samples Collected During the RI
Far East Illegal Dump Site, Fort Bliss, Texas**

Sample ID	Grid Location	Sample Depth	Sample Date	Sample Type
FEIDS-SS1-SO-01	Grid 1	0 – 0.5 feet bgs	3/2/2017	Normal MI
FEIDS-SS2-SO-02	Grid 2	0 – 0.5 feet bgs	3/2/2017	Normal MI
FEIDS-SS3-SO-03	Grid 3	0 – 0.5 feet bgs	3/2/2017	Normal MI
FEIDS-SS4-SO-04	Grid 4	0 – 0.5 feet bgs	3/2/2017	Normal MI
FEIDS-SB1-SO-11	Grid 1	2 – 3 feet bgs	3/3/2017	Normal Grab
FEIDS-SB2-SO-12	Grid 2	2 – 3 feet bgs	3/3/2017	Normal Grab
FEIDS-SS5-SO-05	Grid 5	0 – 0.5 feet bgs	3/3/2017	Normal MI
FEIDS-SS6-SO-06	Grid 6	0 – 0.5 feet bgs	3/3/2017	Normal MI
FEIDS-SS7-SO-07	Grid 7	0 – 0.5 feet bgs	3/3/2017	Normal MI
FEIDS-SS8-SO-08	Grid 8	0 – 0.5 feet bgs	3/3/2017	Normal MI
FEIDS-SS9-SO-09	Grid 9	0 – 0.5 feet bgs	3/3/2017	Normal MI
FEIDS-SS10-SO-10	Grid 10	0 – 0.5 feet bgs	3/3/2017	Normal MI
FEIDS-SB3-SO-13	Grid 3	2 – 3 feet bgs	3/6/2017	Normal Grab
FEIDS-SB4-SO-14	Grid 4	2 – 3 feet bgs	3/6/2017	Normal Grab
FEIDS-SB5-SO-15	Grid 4	2 – 3 feet bgs	3/6/2017	Field Duplicate of FEIDS-SB5-SO-15
FEIDS-SB6-SO-16	Grid 5	2 – 3 feet bgs	3/6/2017	Normal Grab
FEIDS-SB7-SO-17	Grid 6	2 – 3 feet bgs	3/6/2017	Normal Grab
FEIDS-SB8-SO-18	Grid 7	2 – 3 feet bgs	3/6/2017	Normal Grab
FEIDS-SB9-SO-19	Grid 8	2 – 3 feet bgs	3/6/2017	Normal Grab
FEIDS-SB10-SO-20	Grid 10	2 – 3 feet bgs	3/6/2017	Normal Grab
FEIDS-SB11-SO-21	Grid 9	2 – 3 feet bgs	3/6/2017	Normal Grab
FEIDS-SS11-SO-22	North of Grid 1	0 – 0.5 feet bgs	3/6/2017	Normal Grab
FEIDS-SS12-SO-23	North of Grid 1	0 – 0.5 feet bgs	3/6/2017	Field Duplicate of FEIDS-SS11-SO-22
FEIDS-SS13-SO-23	South of Grid 8	0 – 0.5 feet bgs	3/6/2017	Normal Grab
FEIDS-SS14-SO-24	Background 1	0 – 0.5 feet bgs	3/6/2017	Normal Grab
FEIDS-SB12-SO-25	Background 1	2 – 3 feet bgs	3/6/2017	Normal Grab
FEIDS-SS15-SO-26	Background 2	0 – 0.5 feet bgs	3/6/2017	Normal Grab
FEIDS-SB13-SO-27	Background 2	2 – 3 feet bgs	3/6/2017	Normal Grab
FEIDS-SS16-SO-28	Background 3	0 – 0.5 feet bgs	3/6/2017	Normal Grab
FEIDS-SB14-SO-29	Background 3	2 – 3 feet bgs	3/6/2017	Normal Grab

Notes:

bgs = below ground surface

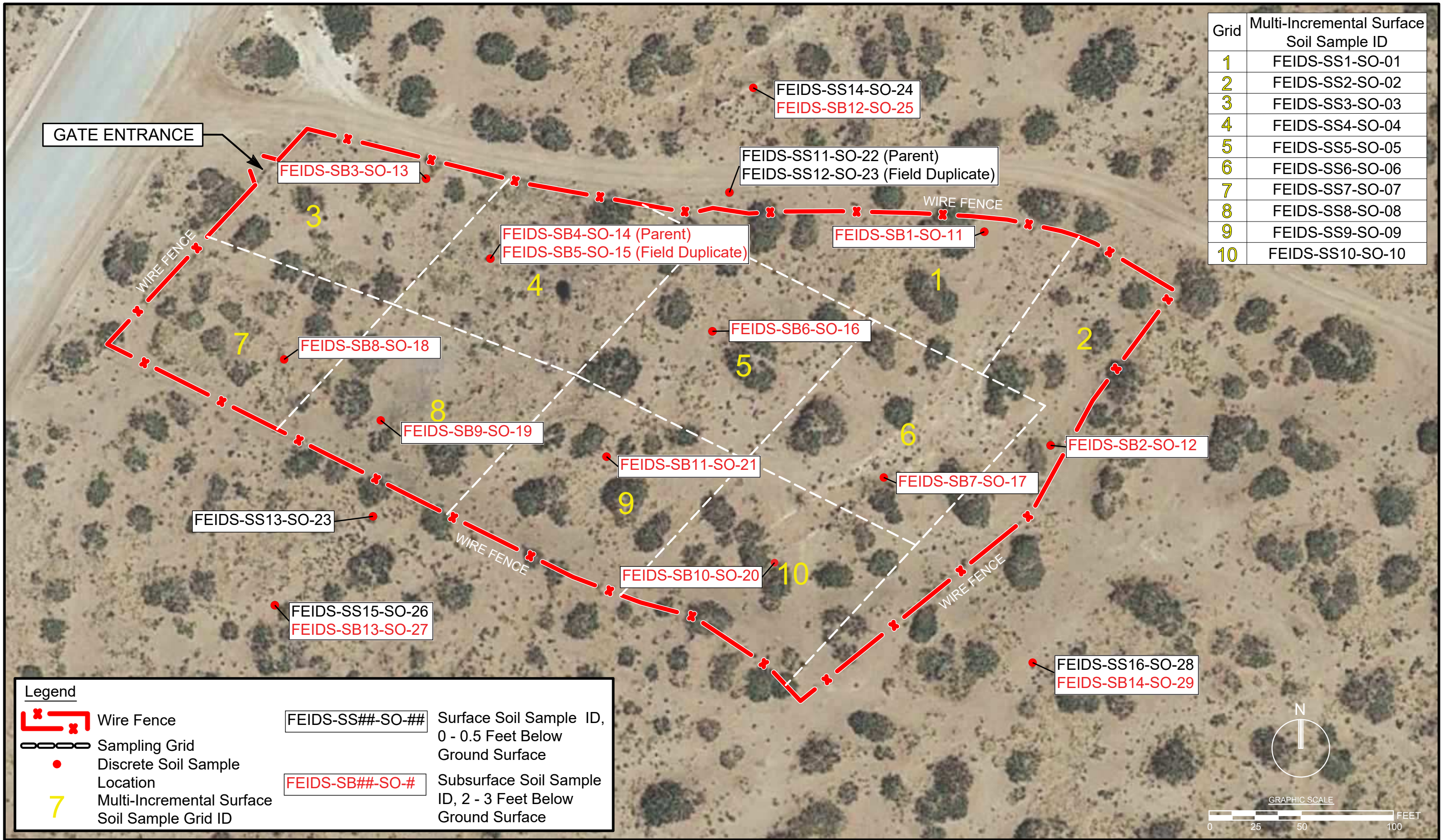
MI = multi-incremental

SB = subsurface soil (2 – 3 feet bgs)

SS = surface soil (0 – 0.5 feet bgs)



Z:\CONUS\Federal\ARMY\FORT BLISS\21003.003.100\Far East Site Illegal Dump Site\QUAPP\Figures\Figure 17-2 Far East Illegal Dump Site.dwg Plot Date: 1/12/2016 10:38 AM



Department of the Army

PROJECT NAME

ENVIRONMENTAL REMEDIATION
MULTIPLE SITES AT FORT BLISS, TX

SHEET TITLE

REMEDIAL INVESTIGATION SOIL SAMPLE LOCATIONS
FAR EAST ILLEGAL DUMP SITE, FORT BLISS, TEXAS

REVISIONS:

No.	Date	By	Chk	Remarks

CONTRACT NO:
W91ZLK-13-D-0003
CHECKED BY:
S.MOOREHEAD
REVIEWED BY:
M.MILLER
SCALE:
AS SHOWN

JOB NO:
21003.003.100
DRAWN BY:
C.WALKER
DATE:
AUGUST 2017
FILE NAME:

SHEET NUMBER:

FIGURE 3-2

CHAPTER 4

NATURE AND EXTENT OF CONTAMINATION

This chapter presents the analytical results from the RI and screens the data against the screening values identified in Subchapter 3.1.2 and the background concentrations obtained during RI sampling. The results of the data screen will evaluate the nature and extent of site-related contamination and select contaminants to be evaluated in the baseline risk assessment (Chapter 6). The QAR for the RI data is provided in **Appendix A**. Tabulated RI data are also provided in **Appendix A** (A-1 through A-3). The locations of the samples collected during the RI are shown on **Figure 3-2**. Results exceeding screening levels and/or background concentrations are shown on **Figure 4-1**.

4.1 SURFACE SOILS

A total of 16 surface (0 – 0.5 feet bgs) soil samples were collected during the RI. The 16 samples consisted of 10 MI surface soil samples collected from Grids 1 – 10, three discrete surface soil samples collected from debris areas located outside of the Site fence line (North of Grid 1, FD from North of Grid 1, and South of Grid 8), and three discrete surface soil samples collected from three background locations. The subchapters below discuss results from each surface sample group.

4.1.1 Surface Soil Results from Grids 1 – 10

The 10 MI surface soil samples collected from Grids 1 – 10 were analyzed for TCL VOCs, TCL SVOCs, pesticides, herbicides, TPH, PCBs, and metals. TPH, SVOCs, herbicides, and PCBs were not detected in any of the surface soil MI samples.

4.1.1.1 Organic Compounds

Two VOCs, isopropylbenzene and toluene, were detected in the MI surface soil samples. However, all VOC detections were several orders of magnitude below human health screening values. Isopropylbenzene was detected in Grid 3 (FEIDS-SS3-SO-03) and Grid 6 (FEIDS-SS6-SO-06) at 1.3 J $\mu\text{g/kg}$ and 0.78 J $\mu\text{g/kg}$, respectively. The qualifier “J” indicates that the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. Toluene was detected in Grid 4 (FEIDS-SS4-SO-04) and Grid 9 (FEIDS-SS9-SO-09) at 1.0 JB $\mu\text{g/kg}$ and 1.2 J $\mu\text{g/kg}$, respectively. The qualifier “JB” indicates that the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, and blank contamination (the recorded results [less than five times laboratory non-common contaminants or less than 10 times laboratory common contaminants] is associated with a contaminated blank).

Two pesticides, 4,4'-DDT and endrin aldehyde, were detected in the MI surface soil samples. However, all pesticide detections were several orders of magnitude below human health screening values. 4,4'-DDT was detected in Grid 5 (FEIDS-SS5-SO-05) at 1.2 J $\mu\text{g/kg}$. Endrin aldehyde was detected in all MI surface soil samples, except Grid 8 (FEIDS-SS8-SO-08). Endrin aldehyde detections ranged from 1.0 J $\mu\text{g/kg}$ in Grid 2 (FEIDS-SS2-SO-02) to 2.0 J $\mu\text{g/kg}$ in Grid 7 (FEIDS-SS7-SO-07).

No other organic contaminants were detected in the surface MI samples.

4.1.1.2 Inorganic Compounds

Inorganic compounds analyzed for the RI consisted of 23 metals. All metals except for silver were detected in the surface MI samples. However, only chromium, lead, selenium, and mercury were detected above human health and/or ecological screening values, as discussed below.

Chromium was detected at 56.9 mg/kg in Grid 3 (FEIDS-SS3-SO-03) above the ecological screening value of 30 mg/kg, but below the most stringent human health screening value (^{GW}Soil_{Ing}) of 1,200 mg/kg. No other detections of chromium in the surface MI soil samples exceeded screening values.

Lead was detected in all MI samples (all grids) ranging from 3.4 mg/kg (Grid 10 [FEIDS-SS10-SO-10]) to 42.9 mg/kg (Grid 3 [FEIDS-SS3-SO-03]). All lead detections were above the most stringent human health screening value (^{GW}Soil_{Ing}) of 1.5 mg/kg. No samples exceeded the ecological screening value of 120 mg/kg.

Selenium was detected in all MI samples (all grids) ranging from 1.4 mg/kg (Grid 10 [FEIDS-SS10-SO-10]) to 2.3 mg/kg (Grid 4 [FEIDS-SS4-SO-4]). All selenium detections exceeded both the ecological screening value of 0.52 mg/kg and the most stringent human health screening value (^{GW}Soil_{Ing}) of 1.1 mg/kg.

Mercury was detected in all MI samples (all grids) ranging from 0.0074 J mg/kg (Grid 7 [FEIDS-SS7-SO-07]) to 0.013 J mg/kg (Grid 2 [FEIDS-SS2-SO-02] and Grid 8 [FEIDS-SS8-SO-02]). All detections exceeded the most stringent human health screening value (^{GW}Soil_{Ing}) of 0.0039 mg/kg. However, none of the detections exceeded the ecological screening value of 0.1 mg/kg.

4.1.2 Surface Soil Results for Locations Outside the Site Fence Line

The three (includes one FD) discrete surface soil samples collected from the two locations (North of Grid 1 and South of Grid 8) outside of the Site fence line were analyzed for TCL VOCs, TCL SVOCs, pesticides, herbicides, TPH, PCBs, and Metals. VOCs, SVOCs, herbicides, TPH, and PCBs were not detected in any of the discrete surface soil samples from the two locations outside of the Site fence line.

4.1.2.1 Organic Compounds

One pesticide, 4,4'-DDT, was detected in the North of Grid 1 location (FEIDS-SS11-SO-22) at 0.75 J µg/kg, several orders of magnitude below human health screening levels. Note that 4,4'-DDT was not detected in the duplicate sample collected from that same location.

No other organic compounds were detected in the surface samples collected outside of the Site fence line.

4.1.2.2 Inorganic Compounds

Inorganic compounds analyzed for the RI consisted of 23 metals. All metals except for silver were detected in the discrete surface samples collected outside the Site fence line. However, only lead, selenium, and mercury were detected above human health and/or ecological screening values as discussed below.

Lead was detected in both sample locations ranging from 4.1 mg/kg (South of Grid 8 [FEIDS-SS13-SO-23]) to 4.9 mg/kg (North of Grid 1 [FEIDS-SS11-SO-22]). All lead detections were above the most stringent human health screening value (^{GW}Soil_{Ing}) of 1.5 mg/kg. None of the detections exceeded the ecological screening value of 120 mg/kg.

Selenium was detected in both sample locations ranging from 1.8 mg/kg (North of Grid 1 [FEIDS-SS11-SO-22]) and 2.1 mg/kg (South of Grid 8 [FEIDS-SS13-SO-23]). Note that the field duplicate of the North of Grid 1 location (FEIDS-SS11-SO-22) had the maximum detected selenium value at 2.2 mg/kg. The selenium detections exceeded both most stringent human health screening value (^{GW}Soil_{Ing}) of 1.1 mg/kg and the ecological screening value of 0.52 mg/kg.

Mercury was detected in both sample locations ranging from 0.0083 J mg/kg (North of Grid 1 [FEIDS-SS11-SO-22]) to 0.0088 J mg/kg (South of Grid 8 [FEIDS-SS13-SO-23]). All detections exceeded the most stringent human health screening value (^{GW}Soil_{Ing}) of 0.0039 mg/kg. However, none of the detections exceeded the ecological screening value of 0.1 mg/kg.

4.1.3 Background Surface Soil Results

Three discrete surface soil samples were collected from three background locations. None of the three background samples had detections for TPH, VOCs, SVOCs, pesticides, herbicides, or PCBs. Several metals were detected in all three background samples. As indicated in the CCTFBL-001 UFP-QAPP, analytes detected at concentrations greater than screening levels would also be compared to maximum background concentrations to determine if the measured concentrations are evidence of a release, or are consistent with naturally occurring concentrations. TRRP Texas-Specific soil background concentrations and the maximum site-specific soil background concentrations were included in this comparison.

In the surface soil samples (Subchapters 4.1.1.2 and 4.1.2.2), chromium, lead, selenium, and mercury were detected above screening levels. Where surface soil metals concentrations exceeded TRRP Texas-Specific soil background concentrations, the surface soil site-specific maximum background concentration was then used as a comparison. The surface soil site-specific maximum background concentration is the maximum concentration of the respective constituent from the three surface soil background samples collected during the RI. The TRRP Texas-Specific soil background concentrations of each metal exceeding screening levels in surface soil are presented in **Appendix A-3**. The surface soil site-specific maximum background detection is shown in **Appendix A-3** for only surface soil metal detections that exceeded the TRRP Texas-Specific soil background concentrations. Metals detections from surface soil samples collected in Grids 1 – 10 and the locations outside the fence line that exceed the TRRP Texas-Specific background concentrations and surface soil site-specific maximum background concentrations included:

- Chromium: Grid 3 (56.9 mg/kg) exceeds both the TRRP Texas-specific background concentration of 30 mg/kg and the site-specific maximum background concentration of 5.7 mg/kg.
- Lead: Grid 3 (42.9 mg/kg) exceeds both the TRRP Texas-specific background concentration of 15 mg/kg and the site-specific maximum background concentration of 4.6 mg/kg.
- Selenium: Grid 2 (2.1 mg/kg), Grid 3 (2.1 mg/kg), Grid 4 (2.3 mg/kg), Grid 6 (2.2 mg/kg), Grid 7 (2.1 mg/kg), FD from North of Grid 1 (2.2 mg/kg), and South of Grid 8 (2.1 mg/kg) exceed the TRRP Texas-specific background concentration of 0.3 mg/kg. Also, all seven samples exceed the surface soil site-specific maximum background concentration of 2.0 mg/kg.

Table 4-1 presents the maximum detected concentration for surface soil samples and provides a comparison against the screening values, the TRRP Texas-specific background concentrations, and the surface soil site-specific maximum background concentrations.

4.2 SUBSURFACE SOILS

A total of 14 subsurface (2 – 3 feet bgs) soil samples were collected during the RI. The 14 samples consisted of 11 discrete subsurface soil samples collected from Grids 1 – 10 (includes a FD from Grid 4) and three discrete subsurface soil samples collected from three background locations.

4.2.1 Subsurface Soil Results from Grids 1 – 10

The 11 subsurface soil samples collected from Grids 1 – 10 were analyzed for TCL VOCs, TCL SVOCs, pesticides, herbicides, TPH, PCBs, and metals. TPH, SVOCs, herbicides, and PCBs were not detected in any of the subsurface soil samples collected in Grids 1 - 10.

4.2.1.1 Organic Compounds

One VOC, isopropylbenzene, was detected in Grid 1 (FEIDS-SB1-SO-11) at 0.95 J $\mu\text{g}/\text{kg}$, which is several orders of magnitude below the human health screening value. One pesticide, methoxychlor, was detected in Grid 6 (FEIDS-SB7-SO-17) at 1.1 J $\mu\text{g}/\text{kg}$, which is several orders of magnitude below the human health screening value. No other organic compounds were detected in the subsurface discrete samples.

4.2.1.2 Inorganic Compounds

Inorganic compounds analyzed for the RI consisted of 23 metals. All metals except for silver were detected in the subsurface soil samples. However, only arsenic, barium, lead, selenium, and mercury were detected above human health and/or ecological screening values as discussed below.

Arsenic was detected above the most stringent human health screening value ($^{GW}\text{Soil}_{\text{Ing}}$) of 2.5 mg/kg in five of the 10 grids sampled, with concentrations ranging from 2.6 mg/kg (Grid 5 [FEIDS-SB6-SO-16]) to 3.5 mg/kg (Grid 10 [FEIDS-SB10-SO-20]). However, none of the detections exceeded the ecological screening value of 18 mg/kg.

Barium was detected at 291 mg/kg in Grid 10 (FEIDS-SB10-SO-20) above the most stringent human health screening value ($^{GW}\text{Soil}_{\text{Ing}}$) of 220 mg/kg, but below the ecological screening value of 330 mg/kg. No other detections of barium in subsurface soil samples exceeded screening values.

Lead was detected above the most stringent human health screening value ($^{GW}\text{Soil}_{\text{Ing}}$) of 1.5 mg/kg in all 10 grids sampled, with concentrations ranging from 2.0 mg/kg (Grid 1 [FEIDS-SB1-SO-11]) to 4.3 mg/kg (Grid 8 [FEIDS-SB9-SO-19]). However, none of the detections exceeded the ecological screening value of 120 mg/kg.

Selenium was detected at or above the most stringent human health screening value ($^{GW}\text{Soil}_{\text{Ing}}$) of 1.1 mg/kg and the ecological screening value of 0.52 mg/kg in all 10 grids sampled with concentrations ranging from 1.1 mg/kg (Grid 4 [FEIDS-SB4-SO-14]) to 2.1 mg/kg (Grid 7 [FEIDS-SB8-SO-19] and Grid 10 [FEIDS-SB10-SO-20]).

Mercury was detected above the most stringent human health screening value ($^{GW}\text{Soil}_{\text{Ing}}$) of 0.0039 mg/kg in seven of the 10 grids sampled. Note that the parent sample collected from Grid 4 (FEIDS-SB4-SO-14) was non-detect, but the FD from Grid 4 (FEIDS-SB5-SO-15) exceeded the $^{GW}\text{Soil}_{\text{Ing}}$ screening value. Concentrations range from 0.0065 J mg/kg (Grid 9 [FEIDS-SB11-SO-21]) to

0.014 J (Grid 8 [FEIDS-SB8-SO-18]). However, none of the detections exceeded the ecological screening value of 0.1 mg/kg.

4.2.2 Background Subsurface Soil Results

Three discrete subsurface soil samples were collected from three background locations. None of the three background samples had detections for TPH, VOCs, SVOCs, pesticides, herbicides, or PCBs. Several metals were detected in all three background samples. As indicated in the CCFTBL-001 UFP-QAPP, analytes detected at concentrations greater than screening levels would also be compared to maximum background concentrations to determine if the measured concentrations are evidence of a release, or are consistent with naturally occurring concentrations. TRRP Texas-Specific soil background concentrations were also included in this comparison.

In subsurface soil samples, arsenic, barium, lead, selenium, and mercury were detected above screening levels. Where subsurface soil metals concentrations exceeded TRRP Texas-Specific soil background concentrations, the subsurface soil site-specific maximum background concentration was then used as a comparison. The subsurface soil site-specific maximum background concentration is the maximum concentration of the respective constituent from the three subsurface soil background samples collected during the RI. The TRRP Texas-Specific soil background concentrations of each metal exceeding screening levels in subsurface soil are presented in **Appendix A-3**. The subsurface site-specific maximum background detection is shown in **Appendix A-3** for only metals that exceeded the TRRP Texas-Specific soil background concentrations. Metals detections from subsurface soil samples collected in Grids 1 – 10 that exceed the TRRP Texas-Specific background concentrations and subsurface soil site-specific maximum background concentrations include:

- Selenium: All selenium subsurface soil sample results, ranging from 1.1 mg/kg to 2.1 mg/kg, exceed the TRRP Texas-Specific background concentration of 0.3 mg/kg. However, only Grid 7 (2.1 mg/kg), Grid 8 (2.0 mg/kg), Grid 9 (1.9 mg/kg), and Grid 10 (2.1 mg/kg) are equal to or exceed the subsurface soil site-specific maximum background concentration of 1.9 mg/kg.

Table 4-1 presents the maximum detected concentration for subsurface soil samples and provides a comparison against the screening levels, the TRRP Texas-Specific background concentration, and the subsurface site-specific maximum background concentration.

4.3 CONCLUSIONS ADDRESSING POTENTIAL NATURE AND EXTENT OF SOIL CONTAMINATION

Site-related metals concentrations (chromium, lead, and selenium) were detected in surface soil (0 – 0.5 feet bgs) above human health screening values, ecological screening values, TRRP Texas-Specific background concentrations, and the surface soil site-specific maximum background concentrations. Selenium was detected in subsurface soil (2 – 3 feet bgs) above the human health screening value, the ecological screening value, the TRRP Texas-Specific background concentration, and the subsurface soil site-specific maximum background concentration.

Chromium and lead concentrations exceeding screening levels, TRRP Texas-Specific background concentrations, and the surface soil site-specific maximum background concentrations are limited to only Grid 3, in surface soil (0 – 0.5 feet bgs) only. No other surface soil samples exceeded the screening levels or background concentrations. Subsurface soil (2–3 feet bgs) chromium and lead

concentrations in Grid 3 were below TRRP Texas-Specific background concentrations. Therefore, the localized chromium and lead concentrations exceeding background values are delineated vertically (0–0.5 feet bgs) and horizontally within Grid 3.

Selenium concentrations in both surface (0–0.5 feet bgs) and subsurface (2–3 feet bgs) were consistently detected above screening levels and the TRRP Texas-Specific background concentration in all locations, including background samples, at the Site. Concentrations from all sample locations ranged from 1.1 mg/kg to 2.3 mg/kg. However, selenium concentrations in the three background samples ranged from 1.4 mg/kg to 2.0 mg/kg. The UFP-QAPP indicated that if analytes were detected at concentrations greater than screening values, those analytes would also be compared to maximum background concentrations to determine if the measured concentrations are evidence of a release, or are consistent with naturally occurring concentrations. Therefore, using this methodology, selenium was not delineated vertically or horizontally at the Site. However, given the consistent selenium concentration distribution across the site (horizontally and vertically), it is likely selenium concentrations are consistent with a localized background concentration that is elevated above the established TRRP Texas-Specific Background.

Based on the TRRP Texas-Specific Background Concentrations and Site-specific Maximum Background concentration comparison results for chromium, lead, and selenium, those metals will be evaluated in the Baseline Risk Assessment (Chapter 6).

Table 4-1 Maximum Detected Contaminant Concentrations for Soil Samples
Far East Illegal Dump Site, Fort Bliss, Texas

Sample Interval	Constituent	Maximum Detected Concentration	Units	Location of Maximum Detection	Frequency of Detection	Human Health Screening Values		Ecological Screening	Texas-Specific Background Concentrations	Site-Specific Maximum Background Detection	Screening Criteria Exceeded
						Direct Contact	Protection of Groundwater				
Surface Soil Grids 1 – 10 (0 – 0.5 feet bgs)	Chromium	56.9	mg/kg	FEIDS-SS3-SO-03 (Grid 3)	10 / 10	27,000	1,200	30	30	5.7	Ecological, Texas-Specific background, site-specific background
	Lead	42.9	mg/kg	FEIDS-SS3-SO-03 (Grid 3)	10 / 10	500	1.5	120	15	4.6	Protection of Groundwater, Texas-Specific background, site-specific background
	Selenium	2.3	mg/kg	FEIDS-SS4-SO-04 (Grid 4)	10 / 10	310	1.1	0.52	0.3	2.0	Protection of Groundwater, Ecological, Texas-Specific background, site-specific background
	Mercury	0.013 J	mg/kg	FEIDS-SS2-SO-02 (Grid 2) and FEIDS-SS8-SO-08 (Grid 8)	10 / 10	2.1	0.0039	0.1	0.04	--	Protection of Groundwater
Surface Soil Outside Fence Line (0 – 0.5 feet bgs)	Lead	4.9	mg/kg	FEIDS-SS11-SO-22 (North of Grid 1)	2 / 2	500	1.5	120	15	--	Protection of Groundwater
	Selenium	2.2	mg/kg	FEIDS-SS12-SO-23 (FD of North of Grid 1)	2 / 2	310	1.1	0.52	0.3	2.0	Protection of Groundwater, Ecological, Texas-Specific background, site-specific background
	Mercury	0.0088 J	mg/kg	FEIDS-SS13-SO-23 (South of Grid 8)	2 / 2	2.1	0.0039	0.1	0.04	--	Protection of Groundwater
Subsurface Soil Grids 1 – 10 (2 – 3 feet bgs)	Arsenic	3.5	mg/kg	FEIDS-SB10-SO-20 (Grid 10)	10 / 10	24	2.5	18	6	--	Protection of Groundwater
	Barium	291	mg/kg	FEIDS-SB10-SO-20 (Grid 10)	10 / 10	8100	220	330	300	--	Protection of Groundwater
	Lead	4.3	mg/kg	FEIDS-SB9-SO-19 (Grid 8)	10 / 10	500	1.5	120	15	--	Protection of Groundwater
	Selenium	2.1	mg/kg	FEIDS-SB8-SO-18 (Grid 7) and FEIDS-SB10-SO-20 (Grid 10)	10 / 10	310	1.1	0.52	0.3	1.9	Protection of Groundwater, Ecological, Texas-Specific background, site-specific background
	Mercury	0.014 J	mg/kg	FEIDS-SB8-SO-18 (Grid 7)	7 / 10	2.1	0.0039	0.1	0.04	--	Protection of Groundwater

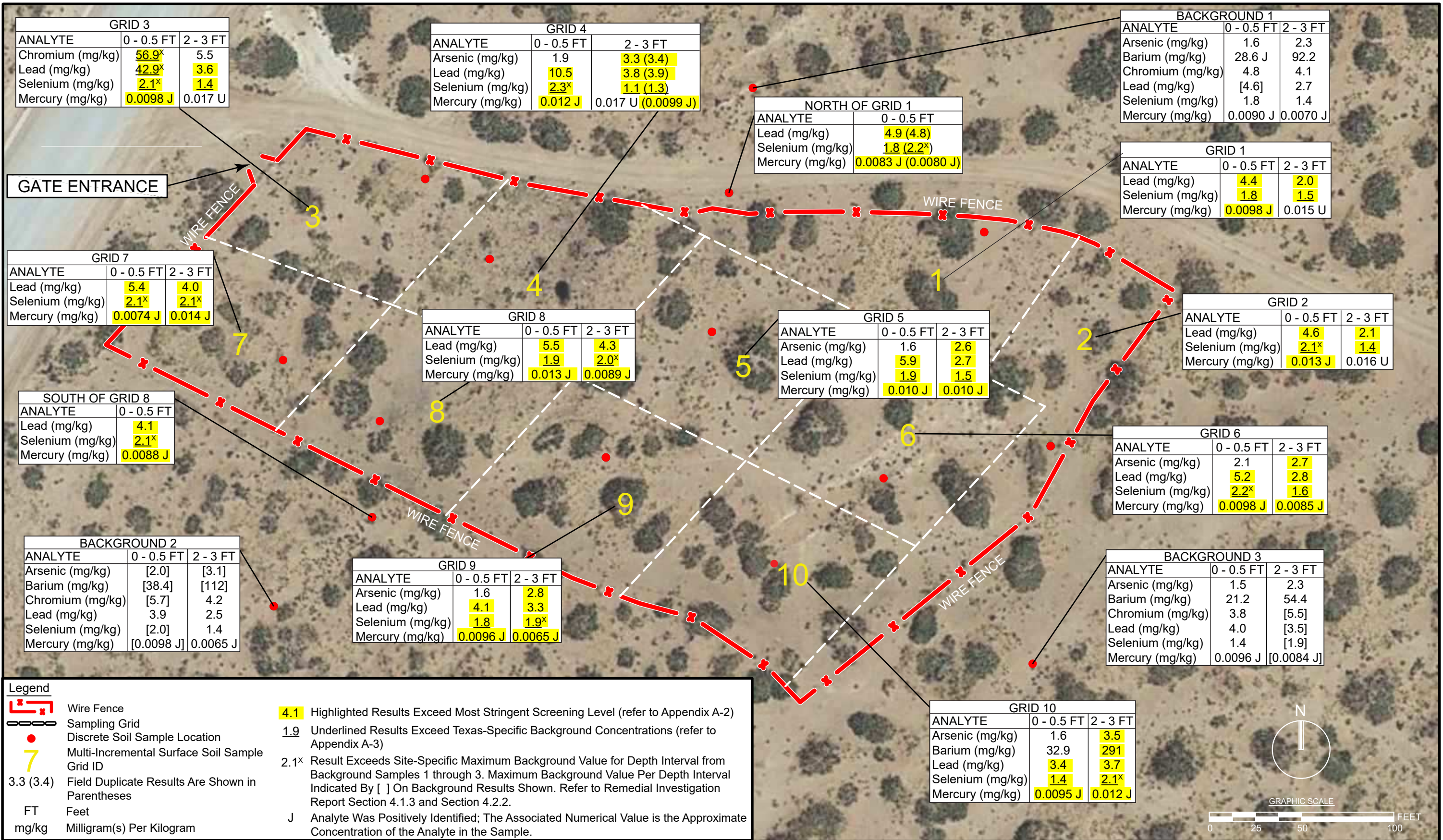
Screening levels, in italics, were selected as the most conservative screening value using the applicable Human Health Screening Values for residential soil and protection of groundwater (TRRP Tier 1 PCLs for residential soil, 30-acre source area), and Ecological Screening Values (TCEQ Ecological Risk Assessment Program, Conducting Ecological Risk Assessments at Remediation Sites in Texas, January 2017, and TCEQ's Ecological Benchmark Soil Table (RF 263-B). Ecological PAL shown is the lowest value of earthworm and plant. Revised August 2016. If the ecological PAL was lower than the TRRP Texas-Specific Background Concentration, the ecological PAL is the background value. <https://www.tceq.texas.gov/remediation/eco/eco.html>

Texas-Specific Background concentrations are the TRRP Texas-Specific Soil Background Concentrations [30 TAC 350.51(m)]

Site-Specific Maximum Background Detection is the maximum value detected from samples collected from three background locations: Background 1, Background 2, or Background 3. Refer to Appendix A for all background sample results. Site-Specific Maximum Background Detections are only shown when the Texas-Specific Background Concentration is exceeded.

bgs = below ground surface
FD = field duplicate
J = validation flag indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
mg/kg = milligram(s) per kilogram
SB = subsurface soil (2 – 3 feet bgs)
SS = surface soil (0 – 0.5 feet bgs)

Z:\CONUS\Federal\ARMY\FORT BLISS\21003.003.100\Far East Site Illegal Dump Site\QUAPP\Figures\Figure 17-2 Far East Illegal Dump Site.dwg Plot Date: 1/12/2016 10:38 AM



Department of the Army
PROJECT NAME
ENVIRONMENTAL REMEDIATION
MULTIPLE SITES AT FORT BLISS, TX

SHEET TITLE
REMEDIAL INVESTIGATION SOIL SAMPLE RESULTS
FAR EAST ILLEGAL DUMP SITE, FORT BLISS, TEXAS

REVISIONS:					Remarks
No.	Date	By	Chk		

CONTRACT NO: W91ZLK-13-D-0003	JOB NO: 21003.003.100
CHECKED BY: S.MOOREHEAD	DRAWN BY: C.WALKER
REVIEWED BY: M.MILLER	DATE: AUGUST 2017
SCALE: AS SHOWN	FILE NAME:

SHEET NUMBER:
FIGURE 4-1

CHAPTER 5

CONTAMINANT FATE AND TRANSPORT

The RI also evaluates contaminant behavior and assesses human health and ecological risks associated with the transport and fate of that contaminant. Refer to Chapter 6 for the Baseline Risk Assessment. A nature and extent assessment integrates climatic, geotechnical, and physical-chemical properties to determine how contaminants will behave after release to the environment.

5.1 POTENTIAL MIGRATION ROUTES

In general, numerous potential migration routes exist in areas with contamination. Such migration routes include, but are not limited to, groundwater, surface water, overland migration of dissolved or adsorbed contaminants, lateral migration of gases through the subsurface, and atmospheric migration via particulate or volatile emissions.

As a result of the nature and extent of contamination at the Site and various site-specific conditions, the potential migration routes of contaminants at the site fall into the following categories: vertical and horizontal migration through the unsaturated zone; surface transport of shallow soil contaminants via surface runoff; particulate resuspension and atmospheric transport in a prevailing downwind direction. The low solubility of the contaminants at the site (refer to Subchapter 5.3) and the depth to groundwater (360 – 390 feet bgs) limit the potential for transport in groundwater.

5.2 CONTAMINANT MIGRATION PROCESS

This subchapter describes the processes that govern migration of contaminants through soil. Fundamental processes that affect the migration of pollutants through soil include partitioning, solubility, degradation, and reduction/oxidation reactions. The following subchapters describe the interactions/reactions of inorganic contaminants detected during the RI at the Site.

5.2.1 Partitioning

Inorganic chemicals released to unsaturated soil will most commonly be adsorbed onto soil particles or dissolved in soil moisture. Adsorption, surface complexation, and ion-exchange reactions are similar sorption mechanisms for inorganic contaminants.

5.2.1.1 Adsorption

Adsorption is the retardation in movement of contaminants compared to water because of adherence to the soil. While adsorption is the most important process governing transport, it also is less evolved and understood than other mechanisms. Functional groups on reactive surface sites attract metal ions through van der Waals forces and other similar inter-molecular attractive forces. Adsorption depends on the surface charge, the dissolved ion and its charge, and the pH of the soil. Positively charged metal ions, such as trivalent chromium, cadmium, lead, iron, manganese, and zinc, tend to be adsorbed, and the transport of these species likely will be slower than the groundwater or pore water velocity (Science Applications International Corporation [SAIC], 2006).

5.2.1.2 Surface Complexation Reactions

Complexes are dissolved species formed from two or more simpler dissolved species, each of which can exist in an aqueous solution (Drever, 1982). Complexes typically are formed between cations and anions, and between cations and neutral-to-negatively charged organic species. Formation of complexes increases the solubility of dissolved ion species by removing free ions from solution. Complexes also can stabilize a dissolved species in solution and be an important factor in the transport of inorganics, particularly metals such as iron, manganese, and chromium (SAIC, 2006).

5.2.1.3 Ion Exchange Reactions

Ion exchange reactions are similar to surface complexation reactions, except that electrostatic or Coulombic forces are responsible for binding metal ions to mineral surface sites (i.e., ionic attraction versus weaker inter-molecular van der Waals attraction). Clay minerals and organic matter are the most important ion exchangers because they have a large electrical charge relative to their surface area. Ion exchange is an important process affecting fate and transport of the alkali metals (sodium and potassium) and the alkaline earth metals (barium, calcium, and magnesium) (SAIC, 2006).

5.2.2 Solubility

Solubility is a measure of the ability of a given chemical to dissolve completely in a solvent (usually water). Highly water-soluble compounds are generally composed of polar molecules and tend to spread rapidly in the environment. Soil and soil-water redox potential (i.e., pH and Eh), along with the form of the metal (i.e., metal species) and complexation reactions, influence the solubilities of inorganic contaminants. Geochemical equilibrium models, which illustrate predominant dissolved species or minerals of the elements in aqueous systems, are depicted on Eh-pH diagrams. These diagrams may be used to estimate the conditions under which elements are either soluble or exist as a solid (i.e., precipitate or complex). Most metals may exist with different oxidation states, and solubility is directly related to the oxidation state of various metals, especially at different pHs or Ehs (redox potentials). For example, iron (III) precipitates (becomes insoluble) in slightly acidic to alkaline solutions, while iron (II) is very soluble. Metal ions also may react with inorganic or organic ligands to form new, soluble species called complexes (SAIC, 2006).

5.2.3 Degradation

Contaminant persistence is a function of physical, chemical, and biological processes that affect the chemical as it moves through air, soil, and water. These processes include photolysis, hydrolysis, bioaccumulation, and biotransformation or biodegradation. Simple inorganic contaminants may undergo chemical species transformation (i.e., change the charge state, such as chromium[VI] to chromium[III]) after being released to the environment. Organometallic compounds can undergo a variety of chemical reactions that may transform one compound into another, change the state of the compound, or cause a compound to combine with other chemicals; however, the metallic portion of the organometallic compounds will only change oxidation states. With the exception of changing oxidation states or possibly exchanging metallic species, inorganic contaminants are much more stable than organic contaminants (SAIC, 2006).

5.3 FATE AND TRANSPORT FOR SITE CONTAMINANTS

The following summarizes factors that affect the fate and transport of the three metals identified in Chapter 4 that exceeded TRRP Texas-Specific Background Concentrations and Site-Specific Maximum Background Concentrations. Information for each metal were summarized from U.S. Department of Health and Human Services (USDHHS) Toxicological Profiles.

5.3.1 Chromium

The mobility of chromium in soil is dependent upon the speciation of chromium, which is a function of redox potential and the pH of the soil. In most soils, chromium will be present predominantly in the chromium(III) oxidation state. This form has very low solubility and low reactivity, resulting in low mobility in the environment. Surface runoff from soil can transport both soluble and bulk precipitate of chromium to surface water. Soluble and unadsorbed hexavalent chromium (chromium[VI]) and chromium(III) complexes in soil may leach into groundwater. The leachability of chromium(VI) in the soil increases as the pH of the soil increases. On the other hand, lower pH present in acid rain may facilitate leaching of acid-soluble chromium(III) complexes and chromium(VI) compounds in soil (USDHHS, 2012).

Hexavalent chromium was not specifically addressed in the risk assessment. The analytical results are for total chromium and do not distinguish between chromium species. However, the statewide background concentrations are also for total chromium. Site background information suggest debris at the site may have been left from nearby camp activities, with no evidence of metals processing or other industrial activities. Therefore, in the absence of any information indicating that a source of hexavalent chromium is present at the site, the comparison that was conducted (i.e., total chromium site concentrations to total chromium background concentrations) is an appropriate comparison.

5.3.2 Lead

The fate of lead in soil is affected by the adsorption at mineral interfaces, the precipitation of sparingly soluble solid forms of the compound, and the formation of relatively stable organic-metal complexes or chelates with soil organic matter. These processes are dependent on such factors as soil pH, soil type, particle size, organic matter content of soil, the presence of inorganic colloids and iron oxides, cation exchange capacity (CEC), and the amount of lead in soil. The mobility of lead will increase in environments having low pH due to the enhanced solubility of lead under acidic conditions. Most lead is retained strongly in soil, and very little is transported through runoff to surface water or leaching to groundwater except under acidic conditions. Clays, silts, iron and manganese oxides, and soil organic matter can bind metals electrostatically (cation exchange) as well as chemically (specific adsorption). Lead is strongly sorbed to organic matter in soil, and although not subject to leaching, it may enter surface waters as a result of erosion of lead-containing soil particulates. The downward movement of elemental lead and inorganic lead compounds from soil to groundwater by leaching is very slow under most natural conditions except for highly acidic situations (USDHHS, 2007).

5.3.3 Selenium

In soils, pH and Eh are determining factors in the transport and partitioning of selenium. Elemental selenium is essentially insoluble and may represent a major inert “sink” for selenium introduced into the environment under anaerobic conditions. Heavy metal selenides and selenium sulfides,

which are also insoluble, predominate in acidic (low pH) soils and in soils with high amounts of organic matter. Selenium in this form is immobile and will remain in the soil.

In acidic soils (pH 4.5–6.5) and under high moisture conditions, selenium is in the form of selenite and is bound to colloids as iron hydroxide selenium complexes. These complexes are insoluble and generally not bioavailable to plants. In basic soils (pH 7.5–8.5), selenium is present as soluble selenate. Soluble selenates (principally sodium selenate) appear to be responsible for most of the naturally occurring accumulation of high levels of selenium by plants, although much of the total selenium in soil may be present in other forms (USDHHS, 2003).

5.3.4 Fate and Transport Conclusions

The mobility of metals is directly related to their solubility in water or other fluids and to pH and redox conditions. In the absence of fluids to mobilize and transport metals, virtually no transport is possible. Even if fluids are present, metals will be significantly mobilized only under favorable pH and redox conditions. Movement of metals also is controlled by the adsorption and redox state of the metal. With the exception of selenium, the solubility of other metals of concern is inversely proportional to pH. According to the NRCS Web Soil Survey, soil at the Site is generally neutral. Additionally, soil samples from the Site Investigation conducted at OB Site II at Biggs Army Airfield at Fort Bliss had pH results between 7.5 and 9 (CAPE, 2017). Therefore, the potential to transport chromium and lead to groundwater is low. Furthermore, iron, manganese, and aluminum oxides, in addition to carbonates, hydroxides, and organic materials, will cause metals to precipitate or be adsorbed onto soil particles. Because most elevated concentrations of metals in the surface soil (i.e., chromium and lead) decrease in concentration as compared to associated subsurface soil sample locations, little downward migration has occurred. For selenium, the site concentrations ranged from 1.1 mg/kg to 2.3 mg/kg and were consistent with site-specific background concentrations, which ranged from 1.4 mg/kg to 2.0 mg/kg. Due to the horizontally consistent concentrations, no apparent horizontal transport is observed. Comparing surface and subsurface soil selenium detections at the site, the concentrations do not indicate a consistent concentration increase or decrease vertically.

CHAPTER 6

BASELINE RISK ASSESSMENT

The Risk Assessment component for the Far East Illegal Dump Site is provided in the Risk Assessment Report in **Appendix C**. The Risk Assessment Report discusses the selection of chemicals of potential concern, the human health risk assessment, and the ecological risk assessment. Below is a summary of the risk assessment components and associated conclusions. Refer to **Appendix C** for additional details.

6.1 SELECTION OF CHEMICALS OF POTENTIAL CONCERN

Six metals (arsenic, barium, chromium, lead, mercury, and selenium) were detected at concentrations greater than either the human health or ecological screening values. The remaining metals and organic compounds analyzed were not present at concentrations greater than human health or ecological screening values, and are not Contaminants of Potential Concern (COPCs), and thus were not evaluated further in the Risk Assessment.

The maximum detected concentration of each of the six metals present at concentrations greater than human health or ecological screening values were compared to the TRRP Texas-Specific Background concentrations, and only three metals (chromium, lead, and selenium) were present at a maximum detected concentration that was greater than state-specific background (refer to **Appendix C, Table 2.1**). Further evaluation of those metals concentrations was conducted in the Risk Assessment and are summarized below.

6.1.1 Chromium

The maximum detected concentration of chromium (56.9 mg/kg) exceeded the TRRP Texas-Specific background concentration (30 mg/kg). However, only a single incremental sample (FEIDS-SS3-S0-03) contained chromium at a concentration greater than background. Therefore, the site was evaluated in its entirety. The surface soil results were compared to the background concentration using a one-sample hypothesis test via the USEPA's ProUCL software (Version 5.1). Using the Wilcoxon Ranked Sum Test, the hypothesis test concludes that the site mean/median concentration is less than the state background concentrations with greater than a 95 percent confidence (Refer to **Appendix C, Attachment A.1**). Based on the statistical information presented in this section, chromium is not a COPC, and no further evaluation of chromium is required to complete the objectives of the RI.

6.1.2 Lead

The maximum detected concentration of lead (42.9 mg/kg) exceeded the TRRP Texas-Specific background concentration (15 mg/kg) and the Tier 1 default Tier 1 PCL for protection of groundwater ($^{GW}Soil_{Ing}$) of 1.5 mg/kg. However, the default $^{GW}Soil_{Ing}$ PCL for lead is based on soil-water distribution coefficient (K_d) of 10 based on an assumption of sandy soil with a pH of less than 5. Other investigations conducted at Fort Bliss found soil pH to be higher than 5, ranging from approximately 7.5 – 9 (Refer to **Appendix C, Attachment A.2**). Therefore, assuming sandy soil with a pH greater than 5, the K_d can be assumed to be 234. Using the Tier 2 PCL equations provided by TCEQ and all standard default values, except K_d , the Tier 2 $^{GW}Soil_{Ing}$ PCL is recalculated as 34.8 mg/kg. The calculation of the 95 percent upper confidence limit (UCL) for lead

for surface soil using the MI samples, results in a 95 percent UCL that is equal to 25.7 mg/kg (Refer to **Appendix C, Attachment A.3**). Therefore, there is no evidence of a release of lead to soil at a concentration that would pose a threat to groundwater. Based on the information presented in this section, lead is not a COPC, and no further evaluation of lead is required to complete the objectives of the RI.

6.1.3 Selenium

As shown on **Table A-3**, selenium was detected at concentrations greater than the PAL in all soil samples, including all MI and discrete samples. However, the maximum detected selenium concentration (2.3 mg/kg) is less than three times the mean of the site-specific background samples (5.0 mg/kg). **Figure 4-1** of the RI report shows the results of the metals analysis, including selenium. As shown in **Figure 4-1** and **Table A-3**, the site selenium concentrations range from 1.4 mg/kg to 2.3 mg/kg, while background concentrations range from 1.4 mg/kg to 2.0 mg/kg. Based on the information presented in this section, selenium is not a COPC, and no further evaluation of selenium is required to complete the objectives of the RI.

6.2 HUMAN HEALTH RISK ASSESSMENT

The Human Health Risk Assessment (HHRA) component of the Risk Assessment Report is provided in **Appendix C, Chapter 3**. This section provides a concise summary of the HHRA process and conclusions. As presented in the USEPA guidance documents, the HHRA process includes:

- Data evaluation and identification of COPCs
- Exposure assessment
- Toxicity assessment
- Risk characterization

A summary of the HHRA components provided in **Appendix C** are provided below.

6.2.1 Data Evaluation and Identification of COPCs

As indicated in Subchapter 6.1 and in the Risk Assessment Report, no COPCs in soil were identified.

6.2.2 Exposure Assessment

To assess exposure, the HHRA evaluates exposure pathways, identifies receptors, estimates exposure point concentrations, and estimates human intake.

To evaluate exposure pathways and identify receptors, a site-specific conceptual site model was formulated using applicable guidance, professional judgment, and site-specific information. Refer to **Appendix C, Figure 3.1** for the Far East Illegal Dump Site CSM diagram. Several human exposure scenarios were evaluated. However, because no COPCs were identified in soil, all soil exposure pathways are incomplete. Due to the lack of surface water, the surface water and sediment exposure pathways were also incomplete for all human receptors. Lastly, the groundwater exposure pathways were incomplete for all receptors, because groundwater occurs approximately 300 feet below the site; no contaminants are expected to reach groundwater; there are no groundwater wells on site; and the nearest groundwater wells are 2.5 miles away.

Because no COPCs were identified in soil, no exposure point concentrations were established. Without complete exposure pathways and exposure point concentrations, no estimates for human intake were calculated.

6.2.3 Toxicity Assessment

The human health screening values presented in **Appendix A-1 through A-3** (TRRP Tier 1 PCLs for residential soil, 30-acre source) were calculated by the TCEQ using the most recently available toxicity data. Toxicity criteria data sources are cited in Section 3.3 of the Risk Assessment Report.

6.2.4 Risk Characterization

As indicated in Section 3.4 of the Risk Assessment Report, no COPCs were identified in soil at the Site. Therefore, there are no complete exposure pathways, and no unacceptable risks to human health. No further evaluation of risk is necessary.

6.3 ECOLOGICAL RISK ASSESSMENT

The Ecological Risk Assessment (ERA) component of the Risk Assessment Report is provided in **Appendix C, Chapter 4**. This section provides a concise summary of the ERA process and conclusions. As presented in the USEPA and TCEQ guidance documents, the ERA process includes:

- Problem Formulation
- Analysis
- Risk Characterization
- Uncertainty Assessment

A summary of the ERA components in **Appendix C** are provided below.

6.3.1 Problem Formulation and Analysis

An ecological CSM (ECSM) was developed for this site and is presented in **Appendix C, Figure 2.1**. Two primary ecological exposure pathways were identified in the ERA:

- Vegetation at the site may be exposed to soil contaminants through root contact, and some bioaccumulative contaminants may be taken up into the plant tissues. Similarly, invertebrates residing in contaminated soils could contact and potentially incorporate these contaminants.
- Wildlife may be exposed to COPECs at the site via the consumption of food items and by incidental ingestion of soil.

Because no COPCs were identified (refer to Subchapter 6.1), there are no complete exposure pathways for ecological receptors.

6.3.2 Risk Characterization

As indicated in Section 4.2.3 of the Risk Assessment Report, no COPECs were identified in environmental media at the Site. Therefore, there are no complete exposure pathways, and no unacceptable risks to environmental receptors.

6.3.3 Uncertainty Assessment

Section 4.2 of the Risk Assessment Report thoroughly describes uncertainties in the ERA.

6.4 TRRP TIER 1 ECOLOGICAL CHECKLIST

A TRRP Tier 1 Ecological Checklist was completed for this RI. The checklist and supporting documentation are located in **Appendix D**. In completing the TRRP Tier 1 Ecological Checklist, the site met exclusion criteria, namely because there is no evidence of migration of metals detected at the site, and the localized elevated metals concentrations (chromium and lead) in Grid 3 are wholly contained within the site's physical barrier (fence).

CHAPTER 7

SUMMARY AND CONCLUSIONS

The primary objective and purpose of the RI was to characterize the nature and extent of any contamination. A summary of the RI is presented in Subchapter 7.1, and conclusions drawn from the RI are presented in Subchapter 7.2.

7.1 SUMMARY

7.1.1 RI Fieldwork Summary

RI fieldwork was conducted between March 3, 2017, and March 7, 2017. The investigation activities included a visual survey of the investigation area and surface and subsurface soil sampling.

Soil sampling was conducted at the Site to investigate chemical concentrations in the surface (0.0 to 0.5 feet bgs) soil and subsurface (2 to 3 feet bgs) soil. Surface soil samples were collected from ten 15-point MI surface soil samples, and subsurface soil samples were collected at the location with the highest OVA-PID reading from each grid. Discrete surface soil samples were also collected at the two areas with waste/debris located outside of the site fence line. Surface and subsurface discrete background soil samples were also collected from three locations in the vicinity of the site. All samples were submitted to the laboratory for TCL VOCs, TCL SVOCs, TAL metals, TCL pesticides, TCL herbicides, TPH, and PCB analysis. Data were reviewed by CAPE's Senior Chemist, and data validation was documented in a Quality Assurance Report. Overall, the quality of the analytical data met the quality control limits established by the project DQOs, the analytical methods, and the data validation criteria.

7.1.2 Nature and Extent of Contamination

There is no surface water on site, and groundwater is approximately 300 feet below ground and was not encountered during RI field activities. In soil, three metals (chromium, lead, and selenium) were detected above screening levels and TRRP-Texas Specific Background concentrations. Chromium and lead concentrations above screening levels and TRRP Texas-Specific Background concentrations were limited to one surface soil MI sample (FEIDS-SS3-SO-03) located at Grid 3. Selenium was detected at all surface and subsurface sample locations, including background locations, above screening levels and TRRP-Texas Specific Background Concentrations. However, selenium concentrations (1.1 mg/kg – 2.3 mg/kg) were consistent with site-specific background selenium concentrations (1.4 mg/kg – 2.0 mg/kg).

7.1.3 Fate and Transport

Because only metals exceeded screening level and TRRP Texas-Specific Background concentrations, the only fate and transport mechanisms examined were for metals. The mobility of metals is directly related to their solubility in water or other fluids and to pH and redox conditions. No surface water is located at the site, and groundwater is 300 feet bgs. Given the low solubility of metals in water, it is unlikely metals will transfer to groundwater. Furthermore, iron, manganese, and aluminum oxides, in addition to carbonates, hydroxides, and organic materials, will cause metals to precipitate or be adsorbed onto soil particles. Because most elevated

concentrations of metals in the surface soil decrease in concentration as compared to associated subsurface soil sample locations, little downward migration has occurred.

7.1.4 Risk Assessment

The three metals which exceeded screening levels and TRRP Texas-Specific Background concentrations in one or more samples were further evaluated in the risk assessment. For chromium, the site mean/median concentration calculated by the Wilcoxon Ranked Sum Test is less than the TRRP Texas-Specific Background concentration. For lead, TCEQ's Tier 2 PCL equations recalculated the $^{GW}Soil_{ing}$ screening level using a K_d value representative of the pH from Fort Bliss (instead of the generic K_d value). The Tier 2 PCL for lead was determined to be 34.8 mg/kg. The 95 percent UCL for surface soil lead concentrations was determined to be less than the Tier 2 PCL at 25.7 mg/kg. For selenium, the maximum detected selenium concentration (2.3 mg/kg) is less than three times the mean of the site-specific background samples (5.0 mg/kg). Therefore, no COPCs were identified in the Risk Assessment.

A CSM was developed for the site. However, because there are no COPCs identified in soil, all soil exposure pathways are incomplete. There are no perennial creeks, streams, or other bodies of fresh water within the investigation areas. Therefore, the surface water and sediment exposure pathways are incomplete for all human receptors. Groundwater occurs approximately 300 feet below the site; no contaminants are expected to reach groundwater. Additionally, there are no groundwater wells on site. The nearest groundwater wells are approximately 2.5 miles away. Therefore, the groundwater exposure pathways are incomplete for all receptors.

Furthermore, because no COPCs were identified in soil, there are no complete exposure pathways and no unacceptable risks to human health. Therefore, no further evaluation of risk is necessary. For the ecological risk assessment, because no COPCs were identified at the site, there are no complete exposure pathways for ecological receptors and no unacceptable risk to environmental receptors.

7.2 CONCLUSIONS

The work completed for this RI Report was designed to characterize the nature and extent of potential environmental contamination and associated risk to human health and the environment. As evaluated in the risk assessment, site-related metals concentrations (chromium and lead) are limited to surface soil in Grid 3. When the site is evaluated in its entirety using statistical methods, no metals exceed the TRRP Texas-Specific Background Concentration (chromium) or the Tier 2 PCL (lead). Selenium concentrations detected during the RI are within the acceptable background range, which is less than three times the maximum site-specific background concentration. Therefore, nature and extent of potential environmental contamination is complete. Based on the risk assessment conclusions, there is no unacceptable risk to human health or environmental receptors as a result of illegal dumping at the Far East Illegal Dump Site.

During the Visual Survey, waste/debris were observed in two locations outside of the Site perimeter fence, as discussed in Subchapter 3.2.1. It is possible that the surface debris migrated outside the fence by wind since the fence was installed.

7.2.1 Data Limitations and Recommendations for Future Work

The data collected for this RI were evaluated in accordance with the CCFTBL UFP-QAPP and appear to be accurate and useful for this RI based on the Quality Assurance Report conclusions

(Subchapter 3.3 and **Appendix A**). Data limitations and uncertainties as related to the risk assessment are discussed in Sections 3.4.1 and 4.2 of the Risk Assessment Report (**Appendix C**). No data gaps were identified during the course of the RI activities. Therefore, no future work to address potential environmental contamination is recommended based on the results of this RI.

However, several debris piles were noted during RI fieldwork both inside and outside of the site fence. Some of the debris piles were also noted to contain sharps and syringes, which is a safety hazard for anyone who accesses the site or its vicinity. As noted above, surface debris may be transported by wind outside the perimeter fence. Therefore, removal of the debris is recommended to address safety concerns.

7.2.2 Recommended Remedial Action Objectives

Because no unacceptable risk to human health or environmental receptors was identified, no remediation at the site is recommended. Therefore, no remedial action objectives have been developed.

CHAPTER 8 REFERENCES

- Cape Environmental Management Inc (CAPE), 2016. Revised Draft Final Uniform Federal Policy Quality Assurance Project Plan – Remedial Investigation at Far East Illegal Dump Site, Environmental Remediation Services at Four Installation Restoration Program Sites and Military Munitions Program Sites at Fort Bliss, Texas. December 2016.
- CAPE, 2017. Draft Site Inspection Report Biggs OB Site II, Environmental Remediation Services at Four Installation Restoration Program Sites and Military Munitions Program Sites at Fort Bliss, Texas. June 2017.
- Connor, Jon J. and Hansford T. Shacklette, 1975. Et al. Background Geochemistry of Some Rocks, Soils, Plants, and Vegetables in the Conterminous United States. Geological Survey Professional Paper 574-F, U.S. Geological Survey. United States Government Printing Office, Washington. 1975.
- Department of Defense (DoD), 2013. Quality Systems Manual for Environmental Laboratories, Version 5.0, July 2013.
- Drever, 1982. The Geochemistry of Natural Waters, Englewood Cliffs, New Jersey. Prentice Hall, Inc.
- Fort Bliss (FTBL), 2006. Memorandum to File: Training Area Inspection of Medical Waste by Industrial Hygiene, July 2006.
- National Oceanic and Atmospheric Administration (NOAA), 2004. Climatography of the United States No. 20: El Paso Intl AP 1971-2000. National Oceanic and Atmospheric Administration. <http://cdо.ncdc.noaa.gov/climatenormals/clim20/tx/412797.pdf>
- National Park Service (NPS), 2017. National Park Service Interactive System Map. Accessed June 14, 2017. <https://www.nps.gov/state/tx/index.htm>.
- Natural Resources Conservation Service (NRCS), 2017. Natural Resources Conservation Service, Web Soil Survey, National Cooperative Soil Survey. Accessed June 15, 2017: <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>.
- Novlan D, M. Hardiman, T. Gill, 2007. A Synoptic Climatology of Blowing Dust Events in El Paso, Texas from 1932–2005 (paper J3.12). 16th Conference on Applied Climatology, American Meteorological Society; San Antonio, Texas. January 2007.
- Oneida Total Integrated Enterprises, Inc. (OTIE), 2014. Draft Preliminary Assessment Report, Preliminary Assessment and Fencing for Illegal Dump Site at Far East Fort Bliss, Fort Bliss, El Paso County, Texas, August 2014.

- Science Applications International Corporation (SAIC), 2006. Final Site 85 – New Small Arms Range Remediation Investigation Report, Savanna Army Depot Activity, Savanna, Illinois. November 2006.
- Soil Conservation Service (SCS), 1971. Soil Survey, El Paso County, Texas, U.S. Department of Agriculture, Soil Conservation Service in cooperation with Texas Agricultural Experiment Station, November 1971.
- Texas Parks and Wildlife Department (TPWD), 2017. Rare, Threatened, and Endangered Species of Texas. El Paso County. Accessed June 16, 2017. <http://tpwd.texas.gov/gis/rtest/>
- Texas Water Department Board (TWDB), 1987. Report 300, Summary of Hydrologic Information in the El Paso, Texas Area, with Emphasis on Ground-Water Studies, 1903-80.
- TWDB 2015. Major Aquifers of Texas, Hueco-Mesilla Bolson Aquifers, TWDB website. Accessed October 13, 2015: www.twdb.texas.gov/groundwater/aquifer/majors/hueco-mesilla-bolsos.
- U.S. Census, 2013. State and County Quickfacts, El Paso (city), Texas. <http://quickfacts.census.gov/qfd/states/48/4824000.html>. U.S. Census Bureau. Accessed November 26, 2013.
- U.S. Department of Health and Human Services (USDHHS), 1999. Toxicological Profile for Mercury. Public Health Service, Agency for Toxic Substances and Disease Registry. March 1999.
- USDHHS, 2003. Toxicological Profile for Selenium. Public Health Service, Agency for Toxic Substances and Disease Registry. September 2003.
- USDHHS, 2007. Toxicological Profile for Lead. Public Health Service, Agency for Toxic Substances and Disease Registry. August 2007.
- USDHHS, 2012. Toxicological Profile for Chromium. Public Health Service, Agency for Toxic Substances and Disease Registry. September 2012.
- U.S. Environmental Protection Agency (USEPA), 1988. Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA. Interim Final. Office of Emergency and Remedial Response. EPA/540/G-89/004. October 1988.
- USEPA 2006. Guidance on Systematic Planning using the Data Quality Objectives Process (QA/G-4). EPA/240/B-06/001. February 2006.
- USEPA 2016. Contract Laboratory Program National Functional Guidelines for Data Review. September 2016.

- U.S. Fish and Wildlife Service (USFWS), 2017a. Critical Habitat for Threatened and Endangered Species Online Mapper. Accessed June 16, 2017. <https://fws.maps.arcgis.com/home/webmap/viewer.html?webmap=9d8de5e265ad4fe09893cf75b8dbfb77>.
- USFWS, 2017b. Environmental Conservation Online System, Species by County Report, El Paso, Texas. Accessed June 16, 2017. <https://ecos.fws.gov/ecp0/reports/species-by-current-range-county?fips=48141>
- USFWS, 2017c. National Wildlife Refuge System Map. Accessed June 14, 2017. https://www.fws.gov/refuges/maps/NWRS_National_Map.pdf
- USFWS, 2017d. Wetlands Online Mapper, National Wetlands Inventory. Accessed June 14, 2017. <http://www.fws.gov/wetlands/Data/Mapper.html>.
- U.S. Forest Service (USFS), 2017. U.S. Forest Service Map Viewer. Accessed June 14, 2017. <https://apps.fs.usda.gov/fsmviewer/>

FINAL

**APPENDIX A
ANALYTICAL RESULTS TABLE AND QUALITY ASSURANCE
REPORT**

**APPENDIX A-1
ANALYTICAL RESULTS FOR ORGANIC CONTAMINANTS**

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-TB-01	FEIDS-SS1-S0-01	FEIDS-SS2-S0-02	FEIDS-SS3-S0-03	FEIDS-SS4-S0-04	FEIDS-TB-02	FEIDS-SS5-S0-05	FEIDS-SS6-S0-06	FEIDS-SS7-S0-07	FEIDS-SS8-S0-08	FEIDS-SS9-S0-09
Grid/Location	Direct Contact (^{1st} Soil _{Comb})	Protection of groundwater (^{GW} Soil _{Ing})	Not applicable	Grid 1	Grid 2	Grid 3	Grid 4	Not applicable	Grid 5	Grid 6	Grid 7	Grid 8	Grid 9
Sample Interval			Not applicable	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	Not applicable	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs
Lab Identification			FA41730-1	FA41730-2	FA41730-3	FA41730-4	FA41730-5	FA41762-1	FA41762-2	FA41762-3	FA41762-4	FA41762-5	FA41762-6
Date			3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/3/17	3/3/17	3/3/17	3/3/17
Matrix			AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	Soil
<i>TX1005</i>	<i>mg/Kg</i>	<i>mg/Kg</i>		<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>		<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>
Laboratory Identification				21703072001	21703072002	21703072003	21703072004		21703071901	21703071902	21703071903	21703071904	21703071905
>C12-C28	2,000	99	NA	38.8U	40.8U	38.5U	38.2U	NA	33.2U	31.5U	38.0U	38.8U	32.6U
>C28-C35	2,000	99	NA	38.8U	40.8U	38.5U	38.2U	NA	33.2U	31.5U	38.0U	38.8U	32.6U
C6-C12	1,100	33	NA	17.0U	17.8U	16.8U	16.7U	NA	14.5U	13.8U	16.6U	17.0U	14.3U
TOTAL TPH (C6-C35)			NA	38.8U	40.8U	38.5U	38.2U	NA	33.2U	31.5U	38.0U	38.8U	32.6U
<i>Volatiles (VOCs) by Method SW846 8260B</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/L</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/L</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Acetone	59,000,000	21,000	20 U	20 UJ	20 UJ	22 UJ	21 UJ	20 U	18 UJ	17 UJ	18 UJ	18 UJ	18 UJ
Benzene	69,000	13	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Bromobenzene	280,000	1,200	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Bromochloromethane	3,300,000	1,500	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Bromodichloromethane	98,000	33	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Bromoform	280,000	320	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
2-Butanone (MEK)	33,000,000	15,000	3.5 U	12 UJ	12 UJ	13 UJ	10 UJ	3.5 U	11 UJ	10 UJ	11 UJ	11 UJ	11 UJ
n-Butylbenzene	3,300,000	76,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
sec-Butylbenzene	3,300,000	42,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
tert-Butylbenzene	3,300,000	50,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Carbon Disulfide	3,300,000	6,800	1.0 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	1.0 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Carbon Tetrachloride	23,000	31	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Chlorobenzene	320,000	550	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Chloroethane	23,000,000	15,000	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Chloroform	8,000	510	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
o-Chlorotoluene	1,100,000	4,500	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
p-Chlorotoluene	1,600,000	5,400	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Dibromochloromethane	72,000	25	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,2-Dibromo-3-chloropropane	80	0.87	2.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	2.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2-Dibromoethane	430	0.10	1.0 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	1.0 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Dichlorodifluoromethane	750,000	120,000	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2-Dichlorobenzene	390,000	8,900	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,3-Dichlorobenzene	62,000	3,400	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,4-Dichlorobenzene	250,000	1,100	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1-Dichloroethane	8,800,000	9,200	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,2-Dichloroethane	6,400	6.9	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1-Dichloroethylene	1,600,000	25	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
cis-1,2-Dichloroethylene	120,000	120	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
trans-1,2-Dichloroethylene	370,000	250	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,2-Dichloropropane	31,000	11	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,3-Dichloropropane	26,000	32	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
2,2-Dichloropropane	31,000	60	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1-Dichloropropene	26,000	67	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
cis-1,3-Dichloropropene	7,800	3.3	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
trans-1,3-Dichloropropene	26,000	18	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Ethylbenzene	5,300,000	3,800	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Hexachlorobutadiene	12,000	1,600	1.0 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	1.0 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
2-Hexanone	210,000	160	5.0 U	12 UJ	12 UJ	13 UJ	12 UJ	5.0 U	11 UJ	10 UJ	11 UJ	11 UJ	11 UJ
Isopropylbenzene	3,000,000	170,000	0.50 U	1.6 UJ	1.6 UJ	1.3J	1.7 UJ	0.50 U	1.5 UJ	0.78J	1.4 UJ	1.4 UJ	1.4 UJ
p-Isopropyltoluene	8,200,000	120,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Methyl Bromide	29,000	65	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Methyl Chloride	84,000	200	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Methylene Bromide	42,000	560	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Methylene Chloride	1,500,000	6.5	4.0 U	4.1 UJ	4.1 UJ	4.5 UJ	4.1 UJ	4.0 U	3.7 UJ	3.5 UJ	3.5 UJ	3.6 UJ	3.6 UJ
4-Methyl-2-pentanone (MIBK)	5,400,000	2,500	2.0 U	12 UJ	12 UJ	13 UJ	12 UJ	2.0 U	11 UJ	10 UJ	11 UJ	11 UJ	11 UJ
Methyl Tert Butyl Ether	590,000	310	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Naphthalene	120,000	16,000	2.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	2.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
n-Propylbenzene	1,600,000	22,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

mg/Kg - milligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-TB-01	FEIDS-SS1-S0-01	FEIDS-SS2-S0-02	FEIDS-SS3-S0-03	FEIDS-SS4-S0-04	FEIDS-TB-02	FEIDS-SS5-S0-05	FEIDS-SS6-S0-06	FEIDS-SS7-S0-07	FEIDS-SS8-S0-08	FEIDS-SS9-S0-09
Grid/Location	Direct Contact (^{1st} Soil _{Comb})	Protection of groundwater (^{GW} Soil _{Ing})	Not applicable	Grid 1	Grid 2	Grid 3	Grid 4	Not applicable	Grid 5	Grid 6	Grid 7	Grid 8	Grid 9
Sample Interval			Not applicable	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	Not applicable	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs
Lab Identification			FA41730-1	FA41730-2	FA41730-3	FA41730-4	FA41730-5	FA41762-1	FA41762-2	FA41762-3	FA41762-4	FA41762-5	FA41762-6
Date			3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/3/17	3/3/17	3/3/17	3/3/17
Matrix			AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	Soil
Volatiles (VOCs) by Method SW846 8260B	ug/Kg	ug/Kg	ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Styrene	4,300,000	1,600	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1,1,2-Tetrachloroethane	39,000	710	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1,2,2-Tetrachloroethane	30,000	12	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Tetrachloroethylene	420,000	25	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Toluene	5,400,000	4,100	0.67J	1.6 UJ	1.6 UJ	1.8 UJ	1.0JB	0.70J	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.2J
1,2,3-Trichlorobenzene	87,000	13,000	1.0 U	2.9 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2,4-Trichlorobenzene	70,000	2,400	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,1,1-Trichloroethane	32,000,000	810	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1,2-Trichloroethane	10,000	10	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Trichloroethylene	11,000	17	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Trichlorofluoromethane	25,000,000	64,000	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2,3-Trichloropropane	200	0.27	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2,4-Trimethylbenzene	79,000	24,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,3,5-Trimethylbenzene	59,000	27,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Vinyl Acetate	1,500,000	27,000	5.0 U	16 UJ	16 UJ	18 UJ	17 UJ	5.0 U	15 UJ	14 UJ	14 UJ	14 UJ	14 UJ
Vinyl Chloride	3,400	11	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
m,p-Xylene	4,700,000	53,000	1.0 U	3.2 UJ	3.3 UJ	3.6 UJ	3.3 UJ	1.0 U	3.0 UJ	2.8 UJ	2.8 UJ	2.8 UJ	2.9 UJ
o-Xylene	29,000,000	35,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Semivolatiles (SVOCs) by Method SW846 8270D	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Benzoic Acid	270,000,000	95,000	NA	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U
4-Chloro-3-methyl Phenol	330,000	2,300	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2-Chlorophenol	410,000	820	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2,4-Dichlorophenol	200,000	180	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2,4-Dimethylphenol	1,300,000	1,600	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
2,4-Dinitrophenol	130,000	47	NA	500 U	500 U	500 U	500 U	NA	500 U	490 U	500 U	500 U	500 U
4,6-Dinitro-o-cresol	6,700	2.3	NA	130 U	130 U	130 U	130 U	NA	130 U	130 U	130 U	130 U	130 U
2-Methylphenol	3,300,000	3,600	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
3&4-Methylphenol	330,000	320	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
2-Nitrophenol	130,000	67	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
4-Nitrophenol	130,000	50	NA	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U
Pentachlorophenol	730	9.2	NA	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U
Phenol	950,000	9,600	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2,4,5-Trichlorophenol	6,700,000	17,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2,4,6-Trichlorophenol	67,000	87	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Acenaphthene	3,000,000	120,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Acenaphthylene	3,800,000	200,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Aniline	59,000	180	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Anthracene	18,000,000	3,400,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzidine	13	0.0055	NA	830 UJ	830 UJ	830 UJ	830 UJ	NA	830 UJ	820 UJ	830 UJ	830 UJ	830 UJ
Benzo(a)anthracene	5,600	8,900	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzo(a)pyrene	560	3,800	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzo(b)fluoranthene	5,700	30,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzo(g,h,i)perylene	1,800,000	23,000,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzo(k)fluoranthene	57,000	310,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzyl Alcohol	6,700,000	2,900	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
4-Bromophenyl phenyl ether	270	180	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Butyl benzyl phthalate	1,600,000	130,000	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Carbazole	230,000	2,300	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
4-Chloroaniline	23,000	10	NA	67 UJ	66 UJ	67 UJ	66 UJ	NA	66 UJ	66 UJ	66 UJ	66 UJ	66 UJ
bis(2-Chloroethoxy)methane	2,500	5.9	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
bis(2-Chloroethyl)ether	1,400	1.1	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
bis(2-Chloroisopropyl)ether	41,000	95	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2-Chloronaphthalene	5,000,000	330,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
4-Chlorophenyl phenyl ether	150	16	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Chrysene	560,000	770,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Dibenzo(a,h)anthracene	550	7,600	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-TB-01	FEIDS-SS1-S0-01	FEIDS-SS2-S0-02	FEIDS-SS3-S0-03	FEIDS-SS4-S0-04	FEIDS-TB-02	FEIDS-SS5-S0-05	FEIDS-SS6-S0-06	FEIDS-SS7-S0-07	FEIDS-SS8-S0-08	FEIDS-SS9-S0-09
Grid/Location	Direct Contact (^{1st} Soil _{Comb})	Protection of groundwater (^{GW} Soil _{Ing})	Not applicable	Grid 1	Grid 2	Grid 3	Grid 4	Not applicable	Grid 5	Grid 6	Grid 7	Grid 8	Grid 9
Sample Interval			Not applicable	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	Not applicable	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs
Lab Identification			FA41730-1	FA41730-2	FA41730-3	FA41730-4	FA41730-5	FA41762-1	FA41762-2	FA41762-3	FA41762-4	FA41762-5	FA41762-6
Date			3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/3/17	3/3/17	3/3/17	3/3/17
Matrix			AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	Soil
Semivolatiles (SVOCs) by Method SW846 8270D	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dibenzofuran	270,000	17,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
1,2-Dichlorobenzene	390,000	8,900	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
1,3-Dichlorobenzene	62,000	3,400	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
1,4-Dichlorobenzene	250,000	1,100	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
3,3'-Dichlorobenzidine	10,000	31	NA	67 UJ	66 UJ	67 UJ	66 UJ	NA	66 UJ	66 UJ	66 UJ	66 UJ	66 UJ
Diethyl Phthalate	53,000,000	78,000	NA	120 U	120 U	120 U	120 U	NA	120 U	120 U	120 U	120 U	120 U
Dimethyl Phthalate	53,000,000	31,000	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Di-n-octyl Phthalate			NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Di-n-butyl Phthalate	6,200,000	1,700,000	NA	120 U	120 U	120 U	120 U	NA	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	6,900	2.7	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2,6-Dinitrotoluene	6,900	2.4	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
1,2-Diphenylhydrazine	5,400	16	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
bis(2-Ethylhexyl)phthalate	43,000	82,000	NA	120 U	120 U	120 U	120 U	NA	120 U	120 U	120 U	120 U	120 U
Fluoranthene	2,300,000	960,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Fluorene	2,300,000	150,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Hexachlorobenzene	1,000	560	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Hexachlorobutadiene	12,000	1,600	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Hexachlorocyclopentadiene	7,200	9,600	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Hexachloroethane	46,000	640	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Indeno(1,2,3-cd)pyrene	5,700	87,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Isophorone	4,900,000	1,500	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
1-Methylnaphthalene	150,000	1,500	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2-Methylnaphthalene	250,000	8,500	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Naphthalene	120,000	16,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2-Nitroaniline	11,000	11	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
3-Nitroaniline	12,000	13	NA	67 UJ	66 UJ	67 UJ	66 UJ	NA	66 UJ	66 UJ	66 UJ	66 UJ	66 UJ
4-Nitroaniline	190,000	54	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Nitrobenzene	34,000	180	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
N-Nitrosodimethylamine	55	0.018	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
N-Nitrosodi-n-propylamine	400	0.18	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
N-Nitrosodiphenylamine	570,000	1,400	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Phenanthrene	1,700,000	210,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Pyrene	1,700,000	560,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Pyridine	82,000	35	NA	120 U	120 U	120 U	120 U	NA	120 U	120 U	120 U	120 U	120 U
1,2,4-Trichlorobenzene	70,000	2,400	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Pesticides by Method SW846 8081B	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Aldrin	50	51	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
alpha-BHC	250	4.0	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
beta-BHC	920	14	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
delta-BHC	2,900	87	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
gamma-BHC (Lindane)	1,100	4.6	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
alpha-Chlordane	13,000	370,000	NA	0.83 U	0.82 UJ	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
gamma-Chlordane	7,300	21,000	NA	0.83 U	0.82 UJ	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Dieldrin	150	24	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
4,4'-DDD	14,000	6,500	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
4,4'-DDE	10,000	5,900	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
4,4'-DDT	5,400	7,400	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	1.2J	0.83 U	0.83 U	0.83 U	0.83 U
Endrin	9,000	380	NA	1.7 U	1.6 U	1.7 U	1.7 U	NA	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Endosulfan sulfate	380,000	2,300,000	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Endrin aldehyde	19,000	310,000	NA	1.3J	1.0J	1.9J	1.6J	NA	1.9J	1.1J	2.0J	0.83 U	1.2J
Endrin ketone	19,000	25,000	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Endosulfan-I	91,000	15,000	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Endosulfan-II	270,000	46,000	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Heptachlor	130	94	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Heptachlor epoxide	240	29	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Methoxychlor	270,000	62,000	NA	1.7 U	1.6 U	1.7 U	1.7 U	NA	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Toxaphene	1,200	5,800	NA	41 U	41 U	42 U	41 U	NA	42 U	42 U	41 U	42 U	41 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

mg/Kg - milligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-TB-01	FEIDS-SS1-S0-01	FEIDS-SS2-S0-02	FEIDS-SS3-S0-03	FEIDS-SS4-S0-04	FEIDS-TB-02	FEIDS-SS5-S0-05	FEIDS-SS6-S0-06	FEIDS-SS7-SO-07	FEIDS-SS8-SO-08	FEIDS-SS9-SO-09
Grid/Location	Direct Contact (^{Tot} Soil _{Comb})	Protection of groundwater (^{GW} Soil _{Ing})	Not applicable	Grid 1	Grid 2	Grid 3	Grid 4	Not applicable	Grid 5	Grid 6	Grid 7	Grid 8	Grid 9
Sample Interval			Not applicable	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	Not applicable	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs
Lab Identification			FA41730-1	FA41730-2	FA41730-3	FA41730-4	FA41730-5	FA41762-1	FA41762-2	FA41762-3	FA41762-4	FA41762-5	FA41762-6
Date			3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/3/17	3/3/17	3/3/17	3/3/17
Matrix			AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	Soil
Herbicides by Method SW846 8151A	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
2,4-D	730,000	1,300	NA	16 UJ	1.6 UJ	16 UJ	17 UJ	NA	16 UJ	16 UJ	16 UJ	16 UJ	17 UJ
2,4,5-TP (Silvex)	530,000	2,600	NA	1.6 UJ	41 UJ	1.6 UJ	1.7 UJ	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ
2,4,5-T	670,000	490	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ
Dicamba	2,000,000	730	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ
Dinoseb	37,000	8.8	NA	32 UJ	32 UJ	33 UJ	33 UJ	NA	33 UJ	32 UJ	33 UJ	33 UJ	33 UJ
Dalapon	2,000,000	290	NA	65 UJ	65 UJ	65 UJ	67 UJ	NA	65 UJ	65 UJ	66 UJ	65 UJ	67 UJ
Dichloroprop	670,000	230	NA	16 UJ	16 UJ	16 UJ	17 UJ	NA	16 UJ	16 UJ	16 UJ	16 UJ	17 UJ
2,4-DB	530,000	190	NA	16 UJ	16 UJ	16 UJ	17 UJ	NA	16 UJ	16 UJ	16 UJ	16 UJ	17 UJ
MCPP	67,000	23	NA	1600 UJ	1600 UJ	1600 UJ	1700 UJ	NA	1600 UJ	1600 UJ	1600 UJ	1600 UJ	1700 UJ
MCPA	33,000	12	NA	2400 UJ	2400 UJ	2500 UJ	2500 UJ	NA	2500 UJ	2400 UJ	2500 UJ	2500 UJ	2500 UJ
Pentachlorophenol	730	9.2	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ
PCB by Method SW846 8082A	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Aroclor 1016	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U
Aroclor 1221	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U
Aroclor 1232	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U
Aroclor 1242	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U
Aroclor 1248	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U
Aroclor 1254	N/A	N/A	NA	12 UJ	12 UJ	12 UJ	12 UJ	NA	12 UJ	12 UJ	12 UJ	12 UJ	12 UJ
Aroclor 1260	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SS10-SO-10	FEIDS-SB1-SO-11	FEIDS-SB2-SO-12	FEIDS-TB-03	FEIDS-SB3-SO-13	FEIDS-SB4-SO-14	FEIDS-SB5-SO-15	FEIDS-SB6-SO-16	FEIDS-SB7-SO-17	FEIDS-SB8-SO-18	FEIDS-SB9-SO-19
Grid/Location	Direct Contact (^{Tot} Soil _{Comb})	Protection of groundwater (^{GW} Soil _{Ing})	Grid 10	Grid 1	Grid 2	Note applicable	Grid 3	Grid 4	Grid 4	Grid 5	Grid 6	Grid 7	Grid 8
Sample Interval			0 - 0.5 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	Note applicable	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs
Lab Identification			FA41762-7	FA41762-8	FA41762-9	FA41805-1	FA41805-2	FA41805-3	FA41805-4	FA41805-5	FA41805-6	FA41805-7	FA41805-8
Date			3/3/17	3/3/17	3/3/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil-Parent	Soil- Field Duplicate	Soil	Soil	Soil	Soil
<i>TX1005</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>		<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>
Laboratory Identification			21703071906	21703071907	21703071908		21703102401	21703102402	21703102403	21703102404	21703102405	21703102406	21703102407
>C12-C28	2,000	99	32.9U	32.9U	34.2U	NA	33.2U	33.2U	32.6U	33.6U	34.5U	32.9U	32.9U
>C28-C35	2,000	99	32.9U	32.9U	34.2U	NA	33.2U	33.2U	32.6U	33.6U	34.5U	32.9U	32.9U
C6-C12	1,100	33	14.4U	14.4U	15.0U	NA	14.5U	14.5U	14.3U	14.7U	15.1U	14.4U	14.4U
TOTAL TPH (C6-C35)			32.9U	32.9U	34.2U	NA	33.2U	33.2U	32.6U	33.6U	34.5U	32.9U	32.9U
<i>Volatiles (VOCs) by Method SW846 8260B</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/L</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Acetone	59,000,000	21,000	19 UJ	23 UJ	25 UJ	20 U	18 UJ	20 UJ	20 UJ	18 UJ	20 UJ	18 UJ	19 UJ
Benzene	69,000	13	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Bromobenzene	280,000	1,200	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Bromochloromethane	3,300,000	1,500	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Bromodichloromethane	98,000	33	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Bromoform	280,000	320	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
2-Butanone (MEK)	33,000,000	15,000	12 UJ	14 UJ	15 UJ	3.5 U	11 UJ	12 UJ	12 UJ	11 UJ	12 UJ	11 UJ	11 UJ
n-Butylbenzene	3,300,000	76,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
sec-Butylbenzene	3,300,000	42,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
tert-Butylbenzene	3,300,000	50,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Carbon Disulfide	3,300,000	6,800	1.6 UJ	1.8 UJ	2.0 UJ	1.0 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Carbon Tetrachloride	23,000	31	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Chlorobenzene	320,000	550	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Chloroethane	23,000,000	15,000	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
Chloroform	8,000	510	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
o-Chlorotoluene	1,100,000	4,500	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
p-Chlorotoluene	1,600,000	5,400	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Dibromochloromethane	72,000	25	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,2-Dibromo-3-chloropropane	80	0.87	2.7 UJ	3.2 UJ	3.5 UJ	2.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,2-Dibromoethane	430	0.10	1.6 UJ	1.8 UJ	2.0 UJ	1.0 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Dichlorodifluoromethane	750,000	120,000	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,2-Dichlorobenzene	390,000	8,900	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,3-Dichlorobenzene	62,000	3,400	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,4-Dichlorobenzene	250,000	1,100	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1-Dichloroethane	8,800,000	9,200	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,2-Dichloroethane	6,400	6.9	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1-Dichloroethylene	1,600,000	25	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
cis-1,2-Dichloroethylene	120,000	120	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
trans-1,2-Dichloroethylene	370,000	250	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,2-Dichloropropane	31,000	11	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,3-Dichloropropane	26,000	32	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
2,2-Dichloropropane	31,000	60	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1-Dichloropropene	26,000	67	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
cis-1,3-Dichloropropene	7,800	3.3	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
trans-1,3-Dichloropropene	26,000	18	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Ethylbenzene	5,300,000	3,800	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Hexachlorobutadiene	12,000	1,600	1.6 UJ	1.8 UJ	2.0 UJ	1.0 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
2-Hexanone	210,000	160	12 UJ	14 UJ	15 UJ	5.0 U	11 UJ	12 UJ	12 UJ	11 UJ	12 UJ	11 UJ	11 UJ
Isopropylbenzene	3,000,000	170,000	1.6 UJ	0.95J	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
p-Isopropyltoluene	8,200,000	120,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Methyl Bromide	29,000	65	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
Methyl Chloride	84,000	200	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
Methylene Bromide	42,000	560	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Methylene Chloride	1,500,000	6.5	3.9 UJ	4.5 UJ	4.9 UJ	4.0 U	3.7 UJ	4.0 UJ	3.9 UJ	3.6 UJ	4.0 UJ	3.6 UJ	3.7 UJ
4-Methyl-2-pentanone (MIBK)	5,400,000	2,500	12 UJ	14 UJ	15 UJ	2.0 U	11 UJ	12 UJ	12 UJ	11 UJ	12 UJ	11 UJ	11 UJ
Methyl Tert Butyl Ether	590,000	310	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Naphthalene	120,000	16,000	2.7 UJ	3.2 UJ	3.5 UJ	2.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
n-Propylbenzene	1,600,000	22,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

mg/Kg - milligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SS10-SO-10	FEIDS-SB1-SO-11	FEIDS-SB2-SO-12	FEIDS-TB-03	FEIDS-SB3-SO-13	FEIDS-SB4-SO-14	FEIDS-SB5-SO-15	FEIDS-SB6-SO-16	FEIDS-SB7-SO-17	FEIDS-SB8-SO-18	FEIDS-SB9-SO-19
Grid/Location	Direct Contact (^{1st} Soil _{Comb})	Protection of groundwater (^{GW} Soil _{Ing})	Grid 10	Grid 1	Grid 2	Note applicable	Grid 3	Grid 4	Grid 4	Grid 5	Grid 6	Grid 7	Grid 8
Sample Interval			0 - 0.5 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	Note applicable	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs
Lab Identification			FA41762-7	FA41762-8	FA41762-9	FA41805-1	FA41805-2	FA41805-3	FA41805-4	FA41805-5	FA41805-6	FA41805-7	FA41805-8
Date			3/3/17	3/3/17	3/3/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil-Parent	Soil- Field Duplicate	Soil	Soil	Soil	Soil
Volatiles (VOCs) by Method SW846 8260B	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Styrene	4,300,000	1,600	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1,1,2-Tetrachloroethane	39,000	710	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1,2,2-Tetrachloroethane	30,000	12	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Tetrachloroethylene	420,000	25	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Toluene	5,400,000	4,100	1.6 UJ	1.8 UJ	2.0 UJ	0.57J	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,2,3-Trichlorobenzene	87,000	13,000	2.7 UJ	3.2 UJ	3.5 UJ	2.7 UJ	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,2,4-Trichlorobenzene	70,000	2,400	2.7 UJ	3.2 UJ	3.5 UJ	1.0 UJ	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,1,1-Trichloroethane	32,000,000	810	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1,2-Trichloroethane	10,000	10	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Trichloroethylene	11,000	17	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Trichlorofluoromethane	25,000,000	64,000	2.7 UJ	3.2 UJ	3.5 UJ	1.0 UJ	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,2,3-Trichloropropane	200	0.27	2.7 UJ	3.2 UJ	3.5 UJ	1.0 UJ	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,2,4-Trimethylbenzene	79,000	24,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,3,5-Trimethylbenzene	59,000	27,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Vinyl Acetate	1,500,000	27,000	16 UJ	18 UJ	20 UJ	5.0 UJ	15 UJ	16 UJ	16 UJ	14 UJ	16 UJ	14 UJ	15 UJ
Vinyl Chloride	3,400	11	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
m,p-Xylene	4,700,000	53,000	3.1 UJ	3.6 UJ	3.9 UJ	1.0 UJ	3.0 UJ	3.2 UJ	3.1 UJ	2.9 UJ	3.2 UJ	2.9 UJ	3.0 UJ
o-Xylene	29,000,000	35,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Semivolatiles (SVOCs) by Method SW846 8270D	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Benzoic Acid	270,000,000	95,000	330 U	330 U	330 U	NA	350 U	350 U	350 U	350 U	350 U	350 U	340 U
4-Chloro-3-methyl Phenol	330,000	2,300	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2-Chlorophenol	410,000	820	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2,4-Dichlorophenol	200,000	180	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2,4-Dimethylphenol	1,300,000	1,600	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
2,4-Dinitrophenol	130,000	47	500 U	490 U	500 U	NA	520 U	520 U	530 U	530 U	530 U	520 U	500 U
4,6-Dinitro-o-cresol	6,700	2.3	130 U	130 U	130 U	NA	140 U	140 U	140 U	140 U	140 U	140 U	130 U
2-Methylphenol	3,300,000	3,600	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
3&4-Methylphenol	330,000	320	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
2-Nitrophenol	130,000	67	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
4-Nitrophenol	130,000	50	330 U	330 U	330 U	NA	350 U	350 U	350 U	350 U	350 U	350 U	340 U
Pentachlorophenol	730	9.2	330 U	330 U	330 U	NA	350 U	350 U	350 U	350 U	350 U	350 U	340 U
Phenol	950,000	9,600	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2,4,5-Trichlorophenol	6,700,000	17,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2,4,6-Trichlorophenol	67,000	87	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Acenaphthene	3,000,000	120,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Acenaphthylene	3,800,000	200,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Aniline	59,000	180	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Anthracene	18,000,000	3,400,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzidine	13	0.0055	830 UJ	820 UJ	830 UJ	NA	870 U	870 U	880 U	880 U	880 U	870 U	840 U
Benzo(a)anthracene	5,600	8,900	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzo(a)pyrene	560	3,800	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzo(b)fluoranthene	5,700	30,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzo(g,h,i)perylene	1,800,000	23,000,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzo(k)fluoranthene	57,000	310,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzyl Alcohol	6,700,000	2,900	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
4-Bromophenyl phenyl ether	270	180	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Butyl benzyl phthalate	1,600,000	130,000	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Carbazole	230,000	2,300	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
4-Chloroaniline	23,000	10	66 UJ	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
bis(2-Chloroethoxy)methane	2,500	5.9	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
bis(2-Chloroethyl)ether	1,400	1.1	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
bis(2-Chloroisopropyl)ether	41,000	95	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2-Chloronaphthalene	5,000,000	330,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
4-Chlorophenyl phenyl ether	150	16	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Chrysene	560,000	770,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Dibenzo(a,h)anthracene	550	7,600	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SS10-SO-10	FEIDS-SB1-SO-11	FEIDS-SB2-SO-12	FEIDS-TB-03	FEIDS-SB3-SO-13	FEIDS-SB4-SO-14	FEIDS-SB5-SO-15	FEIDS-SB6-SO-16	FEIDS-SB7-SO-17	FEIDS-SB8-SO-18	FEIDS-SB9-SO-19
Grid/Location	Direct Contact (^{1st} Soil _{Comb})	Protection of groundwater (^{CW} Soil _{Ing})	Grid 10	Grid 1	Grid 2	Note applicable	Grid 3	Grid 4	Grid 4	Grid 5	Grid 6	Grid 7	Grid 8
Sample Interval			0 - 0.5 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	Note applicable	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs
Lab Identification			FA41762-7	FA41762-8	FA41805-1	FA41805-1	FA41805-2	FA41805-3	FA41805-4	FA41805-5	FA41805-6	FA41805-7	FA41805-8
Date			3/3/17	3/3/17	3/3/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil-Parent	Soil- Field Duplicate	Soil	Soil	Soil	Soil
Semivolatiles (SVOCs) by Method SW846 8270D	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dibenzofuran	270,000	17,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
1,2-Dichlorobenzene	390,000	8,900	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
1,3-Dichlorobenzene	62,000	3,400	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
1,4-Dichlorobenzene	250,000	1,100	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
3,3'-Dichlorobenzidine	10,000	31	66 UJ	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Diethyl Phthalate	53,000,000	78,000	120 U	110 U	120 U	NA	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dimethyl Phthalate	53,000,000	31,000	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Di-n-octyl Phthalate			66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Di-n-butyl Phthalate	6,200,000	1,700,000	120 U	110 U	120 U	NA	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	6,900	2.7	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2,6-Dinitrotoluene	6,900	2.4	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
1,2-Diphenylhydrazine	5,400	16	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
bis(2-Ethylhexyl)phthalate	43,000	82,000	120 U	110 U	120 U	NA	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Fluoranthene	2,300,000	960,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Fluorene	2,300,000	150,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Hexachlorobenzene	1,000	560	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Hexachlorobutadiene	12,000	1,600	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Hexachlorocyclopentadiene	7,200	9,600	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Hexachloroethane	46,000	640	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Indeno(1,2,3-cd)pyrene	5,700	87,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Isophorone	4,900,000	1,500	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
1-Methylnaphthalene	150,000	1,500	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2-Methylnaphthalene	250,000	8,500	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Naphthalene	120,000	16,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2-Nitroaniline	11,000	11	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
3-Nitroaniline	12,000	13	66 UJ	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
4-Nitroaniline	190,000	54	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Nitrobenzene	34,000	180	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
N-Nitrosodimethylamine	55	0.018	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
N-Nitrosodi-n-propylamine	400	0.18	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
N-Nitrosodiphenylamine	570,000	1,400	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Phenanthrene	1,700,000	210,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Pyrene	1,700,000	560,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Pyridine	82,000	35	120 U	110 UJ	120 UJ	NA	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
1,2,4-Trichlorobenzene	70,000	2,400	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Pesticides by Method SW846 8081B	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Aldrin	50	51	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 U	0.88 U	0.89 U	0.91 U	0.88 U	0.88 U
alpha-BHC	250	4.0	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 U	0.88 U	0.89 U	0.91 U	0.88 U	0.88 U
beta-BHC	920	14	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
delta-BHC	2,900	87	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
gamma-BHC (Lindane)	1,100	4.6	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 U	0.88 U	0.89 U	0.91 U	0.88 U	0.88 U
alpha-Chlordane	13,000	370,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
gamma-Chlordane	7,300	21,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Dieldrin	150	24	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
4,4'-DDD	14,000	6,500	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
4,4'-DDE	10,000	5,900	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
4,4'-DDT	5,400	7,400	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Endrin	9,000	380	1.7 U	1.7 U	1.7 U	NA	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ
Endosulfan sulfate	380,000	2,300,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Endrin aldehyde	19,000	310,000	1.1J	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Endrin ketone	19,000	25,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Endosulfan-I	91,000	15,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 U	0.88 U	0.89 U	0.91 U	0.88 U	0.88 U
Endosulfan-II	270,000	46,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Heptachlor	130	94	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 U	0.88 U	0.89 U	0.91 U	0.88 U	0.88 U
Heptachlor epoxide	240	29	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Methoxychlor	270,000	62,000	1.7 U	1.7 UJ	1.7 UJ	NA	1.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.1J	1.8 UJ	1.8 UJ
Toxaphene	1,200	5,800	42 U	42 U	43 U	NA	43 U	44 U	44 U	44 U	46 U	44 U	44 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

mg/Kg - milligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SS10-SO-10	FEIDS-SB1-SO-11	FEIDS-SB2-SO-12	FEIDS-TB-03	FEIDS-SB3-SO-13	FEIDS-SB4-SO-14	FEIDS-SB5-SO-15	FEIDS-SB6-SO-16	FEIDS-SB7-SO-17	FEIDS-SB8-SO-18	FEIDS-SB9-SO-19
Grid/Location	Direct Contact (^{1st} Soil _{Comb})	Protection of groundwater (^{GW} Soil _{Ing})	Grid 10	Grid 1	Grid 2	Note applicable	Grid 3	Grid 4	Grid 4	Grid 5	Grid 6	Grid 7	Grid 8
Sample Interval			0 - 0.5 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	Note applicable	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs
Lab Identification			FA41762-7	FA41762-8	FA41762-9	FA41805-1	FA41805-2	FA41805-3	FA41805-4	FA41805-5	FA41805-6	FA41805-7	FA41805-8
Date			3/3/17	3/3/17	3/3/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil-Parent	Soil- Field Duplicate	Soil	Soil	Soil	Soil
<i>Herbicides by Method SW846 8151.A</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
2,4-D	730,000	1,300	17 UJ	17 UJ	16 UJ	NA	17 UJ	18 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ
2,4,5-TP (Silvex)	530,000	2,600	1.7 UJ	1.7 UJ	1.6 UJ	NA	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ
2,4,5-T	670,000	490	1.7 UJ	1.7 UJ	1.6 UJ	NA	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ
Dicamba	2,000,000	730	1.7 UJ	1.7 UJ	1.6 UJ	NA	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ
Dinoseb	37,000	8.8	33 UJ	33 UJ	33 UJ	NA	34 UJ	35 UJ	35 UJ	34 UJ	36 UJ	34 UJ	34 UJ
Dalapon	2,000,000	290	67 UJ	67 UJ	65 UJ	NA	69 UJ	70 UJ	70 UJ	69 UJ	71 UJ	68 UJ	68 UJ
Dichloroprop	670,000	230	17 UJ	17 UJ	16 UJ	NA	17 UJ	18 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ
2,4-DB	530,000	190	17 UJ	17 UJ	16 UJ	NA	17 UJ	18 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ
MCPP	67,000	23	1700 UJ	1700 UJ	1600 UJ	NA	1700 UJ	1800 UJ	1800 UJ	1700 UJ	1800 UJ	1700 UJ	1700 UJ
MCPA	33,000	12	2500 UJ	2500 UJ	2500 UJ	NA	2600 UJ	2600 UJ	2600 UJ	2600 UJ	2700 UJ	2600 UJ	2600 UJ
Pentachlorophenol	730	9.2	1.7 UJ	1.7 UJ	1.6 UJ	NA	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ
<i>PCB by Method SW846 8082.A</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Aroclor 1016	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1221	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1232	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1242	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1248	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1254	N/A	N/A	12 UJ	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1260	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SB10-SO-20	FEIDS-SB11-SO-21	FEIDS-SS11-SO-22	FEIDS-SS12-SO-23	FEIDS-SS13-SO-23	FEIDS-SS14-SO-24	FEIDS-SB12-SO-25J	FEIDS-SS15-SO-26	FEIDS-SB13-SO-27	FEIDS-SS16-SO-28	FEIDS-SB14-SO-29
Grid/Location	Direct Contact (^{Tot} Soil _{Comb})	Protection of groundwater (^{GW} Soil _{Ing})	Grid 10	Grid 9	North of Grid 1	North of Grid 1	South of Grid 8	Background 1	Background 1	Background 2	Background 2	Background 3	Background 3
Sample Interval			2 - 3 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs
Lab Identification			FA41805-9	FA41805-10	FA41805-11	FA41805-12	FA41805-13	FA41805-14	FA41805-15	FA41805-16	FA41805-17	FA41805-18	FA41805-19
Date			3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<i>TX1005</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>
Laboratory Identification			21703102408	21703102409	21703102410	21703102411	21703102412	21703102415	21703102416	21703102417	21703102418	21703102419	21703102420
>C12-C28	2,000	99	36.5U	34.0U	31.7U	39.5U	38.8U	32.4U	36.5U	31.7U	34.4U	31.4U	32.3U
>C28-C35	2,000	99	36.5U	34.0U	31.7U	39.5U	38.8U	32.4U	36.5U	31.7U	34.4U	31.4U	32.3U
C6-C12	1,100	33	16.0U	14.9U	13.9U	17.3U	17.0U	14.2U	16.0U	13.9U	15.0U	13.7U	14.1U
TOTAL TPH (C6-C35)			36.5U	34.0U	31.7U	39.5U	38.8U	32.4U	36.5U	31.7U	34.4U	31.4U	32.3U
<i>Volatiles (VOCs) by Method SW846 8260B</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Acetone	59,000,000	21,000	18 UJ	22 UJ	17 UJ	17 UJ	19 UJ	18 UJ	21 UJ	18 UJ	21 UJ	18 UJ	16 UJ
Benzene	69,000	13	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Bromobenzene	280,000	1,200	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Bromochloromethane	3,300,000	1,500	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Bromodichloromethane	98,000	33	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Bromoform	280,000	320	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
2-Butanone (MEK)	33,000,000	15,000	11 UJ	11 UJ	10 UJ	10 UJ	11 UJ	13 UJ	11 UJ	11 UJ	11 UJ	11 UJ	9.8 UJ
n-Butylbenzene	3,300,000	76,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
sec-Butylbenzene	3,300,000	42,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
tert-Butylbenzene	3,300,000	50,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Carbon Disulfide	3,300,000	6,800	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Carbon Tetrachloride	23,000	31	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Chlorobenzene	320,000	550	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Chloroethane	23,000,000	15,000	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
Chloroform	8,000	510	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
o-Chlorotoluene	1,100,000	4,500	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
p-Chlorotoluene	1,600,000	5,400	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Dibromochloromethane	72,000	25	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,2-Dibromo-3-chloropropane	80	0.87	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,2-Dibromoethane	430	0.10	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Dichlorodifluoromethane	750,000	120,000	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,2-Dichlorobenzene	390,000	8,900	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,3-Dichlorobenzene	62,000	3,400	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,4-Dichlorobenzene	250,000	1,100	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1-Dichloroethane	8,800,000	9,200	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,2-Dichloroethane	6,400	6.9	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1-Dichloroethylene	1,600,000	25	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
cis-1,2-Dichloroethylene	120,000	120	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
trans-1,2-Dichloroethylene	370,000	250	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,2-Dichloropropane	31,000	11	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,3-Dichloropropane	26,000	32	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
2,2-Dichloropropane	31,000	60	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1-Dichloropropene	26,000	67	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
cis-1,3-Dichloropropene	7,800	3.3	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
trans-1,3-Dichloropropene	26,000	18	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Ethylbenzene	5,300,000	3,800	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Hexachlorobutadiene	12,000	1,600	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
2-Hexanone	210,000	160	11 UJ	13 UJ	10 UJ	10 UJ	11 UJ	11 UJ	13 UJ	11 UJ	13 UJ	11 UJ	9.8 UJ
Isopropylbenzene	3,000,000	170,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
p-Isopropyltoluene	8,200,000	120,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Methyl Bromide	29,000	65	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
Methyl Chloride	84,000	200	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
Methylene Bromide	42,000	560	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Methylene Chloride	1,500,000	6.5	3.6 UJ	4.4 UJ	3.5 UJ	3.4 UJ	3.7 UJ	3.6 UJ	4.2 UJ	3.6 UJ	4.2 UJ	3.6 UJ	3.3 UJ
4-Methyl-2-pentanone (MIBK)	5,400,000	2,500	11 UJ	13 UJ	10 UJ	10 UJ	11 UJ	11 UJ	13 UJ	11 UJ	13 UJ	11 UJ	9.8 UJ
Methyl Tert Butyl Ether	590,000	310	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Naphthalene	120,000	16,000	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
n-Propylbenzene	1,600,000	22,000	1.4 UJ	1.7 UJ	1.7UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ

Notes:
PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

mg/Kg - milligrams per kilogram ug/Kg -micrograms per kilogram
U - Result is not detected J- The quantitation is an estimation.
UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SB10-SO-20	FEIDS-SB11-SO-21	FEIDS-SS11-SO-22	FEIDS-SS12-SO-23	FEIDS-SS13-SO-23	FEIDS-SS14-SO-24	FEIDS-SB12-SO-25	FEIDS-SS15-SO-26	FEIDS-SB13-SO-27	FEIDS-SS16-SO-28	FEIDS-SB14-SO-29
Grid/Location	Direct Contact (^{1st} Soil _{Comb})	Protection of groundwater (^{GW} Soil _{Ing})	Grid 10	Grid 9	North of Grid 1	North of Grid 1	South of Grid 8	Background 1	Background 1	Background 2	Background 2	Background 3	Background 3
Sample Interval			2 - 3 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs
Lab Identification			FA41805-9	FA41805-10	FA41805-11	FA41805-12	FA41805-13	FA41805-14	FA41805-15	FA41805-16	FA41805-17	FA41805-18	FA41805-19
Date			3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Volatiles (VOCs) by Method SW846 8260B	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Styrene	4,300,000	1,600	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1,1,2-Tetrachloroethane	39,000	710	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1,2,2-Tetrachloroethane	30,000	12	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Tetrachloroethylene	420,000	25	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Toluene	5,400,000	4,100	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,2,3-Trichlorobenzene	87,000	13,000	2.5 UJ	2.5 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,2,4-Trichlorobenzene	70,000	2,400	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,1,1-Trichloroethane	32,000,000	810	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1,2-Trichloroethane	10,000	10	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Trichloroethylene	11,000	17	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Trichlorofluoromethane	25,000,000	64,000	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,2,3-Trichloropropane	200	0.27	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,2,4-Trimethylbenzene	79,000	24,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,3,5-Trimethylbenzene	59,000	27,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Vinyl Acetate	1,500,000	27,000	14 UJ	17 UJ	14 UJ	14 UJ	15 UJ	15 UJ	17 UJ	14 UJ	17 UJ	14 UJ	13 UJ
Vinyl Chloride	3,400	11	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
m,p-Xylene	4,700,000	53,000	2.9 UJ	3.5 UJ	2.8 UJ	2.7 UJ	3.0 UJ	2.9 UJ	1.4 UJ	2.9 UJ	3.4 UJ	2.9 UJ	2.6 UJ
o-Xylene	29,000,000	35,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Semivolatiles (SVOCs) by Method SW846 8270D	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Benzoic Acid	270,000,000	95,000	380 U	360 U	340 U	360 U	350 U	350 UJ	350 U	330 U	360 U	340 U	340 U
4-Chloro-3-methyl Phenol	330,000	2,300	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2-Chlorophenol	410,000	820	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2,4-Dichlorophenol	200,000	180	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2,4-Dimethylphenol	1,300,000	1,600	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
2,4-Dinitrophenol	130,000	47	560 U	550 U	510 U	540 U	520 U	530 U	520 U	500 U	540 U	500 U	510 U
4,6-Dinitro-o-cresol	6,700	2.3	150 U	150 U	140 U	150 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
2-Methylphenol	3,300,000	3,600	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
3&4-Methylphenol	330,000	320	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
2-Nitrophenol	130,000	67	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
4-Nitrophenol	130,000	50	380 U	360 U	340 U	360 U	350 U	350 U	350 U	330 U	360 U	340 U	340 U
Pentachlorophenol	730	9.2	380 U	360 U	340 U	360 U	350 U	350 U	350 U	330 U	360 U	340 U	340 U
Phenol	950,000	9,600	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2,4,5-Trichlorophenol	6,700,000	17,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2,4,6-Trichlorophenol	67,000	87	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Acenaphthene	3,000,000	120,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Acenaphthylene	3,800,000	200,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Aniline	59,000	180	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Anthracene	18,000,000	3,400,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzidine	13	0.0055	940 U	910 U	860 U	910 U	870 U	880 UJ	870 U	840 U	890 U	840 U	860 UJ
Benzo(a)anthracene	5,600	8,900	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzo(a)pyrene	560	3,800	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzo(b)fluoranthene	5,700	30,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzo(g,h,i)perylene	1,800,000	23,000,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzo(k)fluoranthene	57,000	310,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzyl Alcohol	6,700,000	2,900	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
4-Bromophenyl phenyl ether	270	180	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Butyl benzyl phthalate	1,600,000	130,000	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Carbazole	230,000	2,300	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
4-Chloroaniline	23,000	10	75 U	73 U	69 U	73 U	70 U	69 U	69 U	67 U	71 U	67 U	68 UJ
bis(2-Chloroethoxy)methane	2,500	5.9	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
bis(2-Chloroethyl)ether	1,400	1.1	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
bis(2-Chloroisopropyl)ether	41,000	95	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2-Chloronaphthalene	5,000,000	330,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
4-Chlorophenyl phenyl ether	150	16	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Chrysene	560,000	770,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Dibenzo(a,h)anthracene	550	7,600	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SB10-SO-20	FEIDS-SB11-SO-21	FEIDS-SS11-SO-22	FEIDS-SS12-SO-23	FEIDS-SS13-SO-23	FEIDS-SS14-SO-24	FEIDS-SB12-SO-25	FEIDS-SS15-SO-26	FEIDS-SB13-SO-27	FEIDS-SS16-SO-28	FEIDS-SB14-SO-29
Grid/Location	Direct Contact (^{1st} Soil _{Comb})	Protection of groundwater (^{GW} Soil _{Ing})	Grid 10	Grid 9	North of Grid 1	North of Grid 1	South of Grid 8	Background 1	Background 1	Background 2	Background 2	Background 3	Background 3
Sample Interval			2 - 3 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs
Lab Identification			FA41805-9	FA41805-10	FA41805-11	FA41805-12	FA41805-13	FA41805-14	FA41805-15	FA41805-16	FA41805-17	FA41805-18	FA41805-19
Date			3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Semivolatiles (SVOCs) by Method SW846 8270D	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dibenzofuran	270,000	17,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
1,2-Dichlorobenzene	390,000	8,900	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
1,3-Dichlorobenzene	62,000	3,400	75 U	73 U	69 U	69 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
1,4-Dichlorobenzene	250,000	1,100	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
3,3'-Dichlorobenzidine	10,000	31	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 UJ
Diethyl Phthalate	53,000,000	78,000	130 U	120 U	120 U	130 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dimethyl Phthalate	53,000,000	31,000	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Di-n-octyl Phthalate			75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Di-n-butyl Phthalate	6,200,000	1,700,000	130 U	130 U	120 U	130 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	6,900	2.7	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2,6-Dinitrotoluene	6,900	2.4	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
1,2-Diphenylhydrazine	5,400	16	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
bis(2-Ethylhexyl)phthalate	43,000	82,000	130 U	120 U	120 U	130 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Fluoranthene	2,300,000	960,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Fluorene	2,300,000	150,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Hexachlorobenzene	1,000	560	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Hexachlorobutadiene	12,000	1,600	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Hexachlorocyclopentadiene	7,200	9,600	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Hexachloroethane	46,000	640	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Indeno(1,2,3-cd)pyrene	5,700	87,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Isophorone	4,900,000	1,500	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
1-Methylnaphthalene	150,000	1,500	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2-Methylnaphthalene	250,000	8,500	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Naphthalene	120,000	16,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2-Nitroaniline	11,000	11	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
3-Nitroaniline	12,000	13	75 U	73 U	69 U	69 U	70 U	70 U	69 U	67 U	71 U	67 U	68 UJ
4-Nitroaniline	190,000	54	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Nitrobenzene	34,000	180	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
N-Nitrosodimethylamine	55	0.018	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
N-Nitrosodi-n-propylamine	400	0.18	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
N-Nitrosodiphenylamine	570,000	1,400	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Phenanthrene	1,700,000	210,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Pyrene	1,700,000	560,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Pyridine	82,000	35	130 UJ	130 UJ	120 UJ	130 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
1,2,4-Trichlorobenzene	70,000	2,400	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Pesticides by Method SW846 8081B	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Aldrin	50	51	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
alpha-BHC	250	4.0	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
beta-BHC	920	14	0.93 U	0.87 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
delta-BHC	2,900	87	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
gamma-BHC (Lindane)	1,100	4.6	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 UJ	0.84 U	0.88 U	0.82 U	0.86 U
alpha-Chlordane	13,000	370,000	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
gamma-Chlordane	7,300	21,000	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Dieldrin	150	24	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
4,4'-DDD	14,000	6,500	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
4,4'-DDE	10,000	5,900	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
4,4'-DDT	5,400	7,400	0.93 U	0.91 U	0.75U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Endrin	9,000	380	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.6 U	1.7 U
Endosulfan sulfate	380,000	2,300,000	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Endrin aldehyde	19,000	310,000	0.93 U	0.91 U	0.85 U	0.90 UJ	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Endrin ketone	19,000	25,000	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Endosulfan-I	91,000	15,000	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Endosulfan-II	270,000	46,000	0.93 UJ	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Heptachlor	130	94	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Heptachlor epoxide	240	29	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Methoxychlor	270,000	62,000	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.6 U	1.7 U
Toxaphene	1,200	5,800	46 U	45 U	43 U	45 U	J43 U	43 U	44 U	42 U	44 U	41 U	43 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

mg/Kg - milligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Appendix A-1
Analytical Results for Organic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SB10-SO-20	FEIDS-SB11-SO-21	FEIDS-SS11-SO-22	FEIDS-SS12-SO-23	FEIDS-SS13-SO-23	FEIDS-SS14-SO-24	FEIDS-SB12-SO-25	FEIDS-SS15-SO-26	FEIDS-SB13-SO-27	FEIDS-SS16-SO-28	FEIDS-SB14-SO-29
Grid/Location	Direct Contact (^{1st} Soil _{Comb})	Protection of groundwater (^{GW} Soil _{Ing})	Grid 10	Grid 9	North of Grid 1	North of Grid 1	South of Grid 8	Background 1	Background 1	Background 2	Background 2	Background 3	Background 3
Sample Interval			2 - 3 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs
Lab Identification			FA41805-9	FA41805-10	FA41805-11	FA41805-12	FA41805-13	FA41805-14	FA41805-15	FA41805-16	FA41805-17	FA41805-18	FA41805-19
Date			3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil-Parent	Soil- Field Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<i>Herbicides by Method SW846 8151.A</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
2,4-D	730,000	1,300	19 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ	17 UJ	17 UJ	18 UJ	16 UJ	17 UJ
2,4,5-TP (Silvex)	530,000	2,600	1.9 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.8 UJ	1.6 UJ	1.7 UJ
2,4,5-T	670,000	490	1.9 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.8 UJ	1.6 UJ	1.7 UJ
Dicamba	2,000,000	730	1.9 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.8 UJ	1.6 UJ	1.7 UJ
Dinoseb	37,000	8.8	38 UJ	36 UJ	34 UJ	36 UJ	35 UJ	35 UJ	34 UJ	33 UJ	35 UJ	33 UJ	34 UJ
Dalapon	2,000,000	290	75 UJ	72 UJ	68 UJ	71 UJ	70 UJ	70 UJ	69 UJ	67 UJ	70 UJ	65 UJ	68 UJ
Dichloroprop	670,000	230	19 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ	17 UJ	17 UJ	18 UJ	16 UJ	17 UJ
2,4-DB	530,000	190	19 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ	17 UJ	17 UJ	18 UJ	16 UJ	17 UJ
MCPP	67,000	23	1900 UJ	1800 UJ	1700 UJ	1800 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1800 UJ	1600 UJ	1700 UJ
MCPA	33,000	12	2800 UJ	2700 UJ	2600 UJ	2700 UJ	2600 UJ	2600 UJ	2600 UJ	2500 UJ	2600 UJ	2500 UJ	2500 UJ
Pentachlorophenol	730	9.2	1.9 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.8 UJ	1.6 UJ	1.7 UJ
<i>PCB by Method SW846 8082.A</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Aroclor 1016	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1221	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1232	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1242	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1248	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1254	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1260	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Ing})

ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

APPENDIX A-2
ANALYTICAL RESULTS FOR INORGANIC CONTAMINANTS

Appendix A-2
Analytical Results for Inorganic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs) ⁽¹⁾			TRRP Texas-Specific Soil Background Concentrations ⁽²⁾	FEIDS-TB-01	FEIDS-SS1-S0-01	FEIDS-SS2-S0-02	FEIDS-SS3-S0-03	FEIDS-SS4-S0-04	FEIDS-TB-02	FEIDS-SS5-S0-05	FEIDS-SS6-S0-06	FEIDS-SS7-S0-07	FEIDS-SS8-S0-08	FEIDS-SS9-S0-09
Grid/Location	Human Health Screening Values (mg/kg)		Ecological Screening Values		Not applicable	Grid 1	Grid 2	Grid 3	Grid 4	Not applicable	Grid 5	Grid 6	Grid 7	Grid 8	Grid 9
Sample Interval					Not applicable	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	Not applicable	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})			FA41730-1	FA41730-2	FA41730-3	FA41730-4	FA41730-5	FA41762-1	FA41762-2	FA41762-3	FA41762-4	FA41762-5	FA41762-6
Date					3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/3/17	3/3/17	3/3/17	3/3/17
Matrix					AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	Soil
Metals by Method SW846 6020A	mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	64,000	86,000	N/A	30,000	NA	4,930J	5,850	5,810	5,480	NA	4,670	5,970	5,250	4,740	4,430
Antimony	15	2.7	5	1	NA	0.091 J	0.085 J	0.17 J	0.11 J	NA	0.091 J	0.079 J	0.090 J	0.085 J	0.068 J
Arsenic	24	2.5	18	6	NA	1.7	2.2	2.2	1.9	NA	1.6	2.1	1.9	1.8	1.6
Barium	8,100	220	330	300	NA	35.9	44.5	44.0	44.1	NA	33.5	48.0	37.7	39.2	32.3
Beryllium	38	0.92	10	1.5	NA	0.27 J	0.33 J	0.31 J	0.35 J	NA	0.23 J	0.32 J	0.30 J	0.24 J	0.23 J
Cadmium	51	0.75	32	N/A	NA	0.067 J	0.25 U	0.44 J	0.35 J	NA	0.13 J	0.071 J	0.077 J	0.073 J	0.053 J
Calcium	N/A	N/A	N/A	N/A	NA	4,050J	6,140	4,440	8,820	NA	3,210	9,640	4,150	4,530	3,230
Chromium	27,000	1,200	30	30	NA	5.0	5.8	56.9	5.8	NA	4.5	5.8	5.5	4.9	4.3
Cobalt	370	110	13	7	NA	1.6	1.9	2.1	1.9	NA	1.5	1.9	1.8	1.7	1.5
Copper	1,300	520	70	15	NA	2.7	2.9	11.5	9.8	NA	4.6	3.5	3.4	3.4	2.5
Iron	N/A	N/A	N/A	15,000	NA	5,160J	5,930	6,770	5,920	NA	4,610	5,990	5,630	5,020	4,400
Lead	500	1.5	120	15	NA	4.4	4.6	42.9	10.5	NA	5.9	5.2	5.4	5.5	4.1
Magnesium	N/A	N/A	N/A	N/A	NA	1,350	1,600	1,640	1,610	NA	1,260	1,680	1,440	1,410	1,200
Manganese	3,800	580	300	300	NA	64.0J	72.3	83.2	72.3	NA	60.2	73.1	73.3	69.1	59.8
Nickel	840	79	38	10	NA	3.7	4.5	6.1	5.3	NA	3.6	4.6	4.0	3.9	3.7
Potassium	N/A	N/A	N/A	N/A	NA	1,260	1,430	1,540	1,450	NA	1,210	1,450	1,370	1,310	1,140
Selenium	310	1.1	0.52	0.3	NA	1.8	2.1	2.1	2.3	NA	1.9	2.2	2.1	1.9	1.8
Silver	97	0.24	560	N/A	NA	0.24 UJ	0.25 U	0.24 U	0.24 U	NA	0.23 U	0.25 U	0.25 U	0.23 U	0.24 U
Sodium	N/A	N/A	N/A	N/A	NA	26.5 J	30.4 J	49.9	34.2 J	NA	22.9 J	31.9 J	27.5 J	27.3 J	21.7 J
Thallium	5.3	0.87	1	N/A	NA	0.066 J	0.065 J	0.063 J	0.060 J	NA	0.052 J	0.066 J	0.058 J	0.055 J	0.24 U
Vanadium	75	440	50	50	NA	8.0J	9.5	9.2	8.7	NA	6.8	9.4	8.9	7.9	6.5
Zinc	9,900	1,200	120	30	NA	15.8J	17.3J	77.2J	50.9J	NA	23.2J	17.4J	17.5J	18.1J	14.1J
Mercury by Method SW846 7471B	mg/Kg	mg/Kg				mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Mercury	2.1	0.0039	0.1	0.04	NA	0.0098 J	0.013 J	0.0098 J	0.012 J	NA	0.010 J	0.0098 J	0.0074 J	0.013 J	0.0096 J

Notes:

(1) PALs, in italics, were selected as the most conservative screening value using the applicable Human Health Screening Values for residential soil and protection of groundwater (TRRP Tier 1 PCLs for residential soil, 30 acre source area) , and Ecological Screening Values (TCEQ Ecological Risk Assessment Program, Conducting Ecological Risk Assessments at Remediation Sites in Texas, January 2017, and TCEQ's Ecological Benchmark Soil Table (RF 263-B). Ecological PAL shown is the lowest value of earthworm and plant. Revised August 2016. If the ecological PAL was lower than the TRRP Texas-Specific Background Concentration, the ecological PAL is the background value. <https://www.tceq.texas.gov/remediation/eco/eco.html>

(2) Background concentrations are the TRRP Texas-Specific Soil Background Concentrations [30 TAC 350.51(m)]

mg/Kg - milligrams per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the most conservative screening level

Appendix A-2

Analytical Results for Inorganic Contaminants

Fort Bliss Far East Illegal Dump Site

Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs) ⁽¹⁾			FEIDS-SS10-SO-10	FEIDS-SB1-SO-11	FEIDS-SB2-SO-12	FEIDS-TB-03	FEIDS-SB3-SO-13	FEIDS-SB4-SO-14	FEIDS-SB5-SO-15	FEIDS-SB6-SO-16	FEIDS-SB7-SO-17	FEIDS-SB8-SO-18	FEIDS-SB9-SO-19	FEIDS-SB10-SO-20
Grid/Location	Human Health Screening Values (mg/kg)			Grid 10	Grid 1	Grid 2	Note applicable	Grid 3	Grid 4	Grid 4	Grid 5	Grid 6	Grid 7	Grid 8	Grid 10
Sample Interval				0 - 0.5 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	Note applicable	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	Ecological Screening Values	FA41762-7	FA41762-8	FA41762-9	FA41805-1	FA41805-2	FA41805-3	FA41805-4	FA41805-5	FA41805-6	FA41805-7	FA41805-8	FA41805-9
Date				3/3/17	3/3/17	3/3/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix				Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil-Parent	Soil- Field Duplicate	Soil	Soil	Soil	Soil	Soil
<i>Metals by Method SW846 6020A</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>		<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>
Aluminum	64,000	86,000	N/A	4,080	3,550	3,620	NA	4,770	4,020	4,240	4,680	4,860	4,720	4,700	7,210
Antimony	15	2.7	5	0.071 J	0.081 J	0.070 J	NA	0.12 J	0.093 J	0.090 J	0.10 J	0.097 J	0.093 J	0.097 J	0.13 J
Arsenic	24	2.5	18	1.6	2.0	2.1	NA	2.4	3.3	3.4	2.6	2.7	2.2	2.1	3.5
Barium	8,100	220	330	32.9	103	108	NA	155	200	210	126	102	48.2	57.2	291
Beryllium	38	0.92	10	0.25 J	0.20 J	0.18 J	NA	0.25 J	0.23 J	0.19 J	0.24 J	0.17 J	0.35 J	0.35 J	0.31 J
Cadmium	51	0.75	32	0.23 U	0.24 U	0.25 U	NA	0.081 J	0.094 J	0.093 J	0.048 J	0.23 U	0.042 J	0.045 J	0.23 U
Calcium	N/A	N/A	N/A	5,730	121,000	144,000	NA	99,000	176,000	184,000	99,400	96,000	9,630	11,400	77,100
Chromium	27,000	1,200	30	3.9	2.8	2.4	NA	5.5	3.9	4.0	5.4	5.0	5.7	6.1	6.7
Cobalt	370	110	13	1.3	1.4	1.5	NA	2.0	1.9	2.1	2.1	2.1	1.9	2.2	2.5
Copper	1,300	520	70	2.2	1.5	0.84	NA	2.0	2.1	2.2	2.2	2.1	2.6	2.9	3.5
Iron	N/A	N/A	N/A	4,050	2,430	2,180	NA	4,600	3,500	3,620	4,770	4,600	6,010	6,510	6,500
Lead	500	1.5	120	3.4	2.0	2.1	NA	3.6	3.8	3.9	2.7	2.8	4.0	4.3	3.7
Magnesium	N/A	N/A	N/A	1,140	7,490	6,370	NA	5,150	7,570	7,780	3,950	5,360	1,500	1,460	15,300
Manganese	3,800	580	300	51.8	24.0	24.6	NA	46.0	36.0	36.7	50.1	43.9	69.5	85.4	71.7
Nickel	840	79	38	3.1	4.0	4.7	NA	5.2	4.9	5.4	4.3	5.4	4.2	4.4	5.9
Potassium	N/A	N/A	N/A	972	447	353	NA	851	594	619	852	797	1010	926	1200
Selenium	310	1.1	0.52	1.4	1.5	1.4	NA	1.4	1.1	1.3	1.5	1.6	2.1	2.0	2.1
Silver	97	0.24	560	0.23 U	0.24 U	0.25 U	NA	0.26 U	0.21 U	0.23 U	0.24 U	0.23 U	0.18 U	0.22 U	0.23 U
Sodium	N/A	N/A	N/A	21.9 J	606	500	NA	343	214	224	228	178	38.6	32.5 J	110
Thallium	5.3	0.87	1	0.045 J	0.24 U	0.25 U	NA	0.26 U	0.21 U	0.23 U	0.24 U	0.23 U	0.053 J	0.057 J	0.062 J
Vanadium	75	440	50	6.2	8.2	7.7	NA	11.6	12.0	12.3	11.0	12.0	10.4	11.7	19.9
Zinc	9,900	1,200	120	12.3J	12.7J	7.3J	NA	12.9J	16.7J	16.5J	12.7J	11.4J	14.6J	16.4J	15.2J
<i>Mercury by Method SW846 7471B</i>	<i>mg/Kg</i>	<i>mg/Kg</i>		<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>		<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>				
Mercury	2.1	0.0039	0.1	0.0095 J	0.015 U	0.016 U	NA	0.017 U	0.017 U	0.0099 J	0.010 J	0.0085 J	0.014 J	0.0089 J	0.012 J

Notes:

(1) PALs, in italics, were selected as the most conservative screening value using the applicable Human Health Screening Values for residential soil groundwater (TRRP Tier 1 PCLs for residential soil, 30 acre source area) , and Ecological Screening Values (TCEQ Ecological Risk Assessment Pr Ecological Risk Assessments at Remediation Sites in Texas, January 2017, and TCEQ's Ecological Benchmark Soil Table (RF 263-B). Ecological F value of earthworm and plant. Revised August 2016. If the ecological PAL was lower than the TRRP Texas-Specific Background Concentration, th background value. <https://www.tceq.texas.gov/remediation/eco/eco.html>

(2) Background concentrations are the TRRP Texas-Specific Soil Background Concentrations [30 TAC 350.51(m)]

mg/Kg - milligrams per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the most conservative screening level

Appendix A-2
Analytical Results for Inorganic Contaminants
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs) ⁽¹⁾			FEIDS-SB11-SO-21	FEIDS-SS11-SO-22	FEIDS-SS12-SO-23	FEIDS-SS13-SO-23	FEIDS-SS14-SO-24	FEIDS-SB12-SO-25	FEIDS-SS15-SO-26	FEIDS-SB13-SO-27	FEIDS-SS16-SO-28	FEIDS-SB14-SO-29
Grid/Location	Human Health Screening Values (mg/kg)			Grid 9	North of Grid 1	North of Grid 1	South of Grid 8	Background 1	Background 1	Background 2	Background 2	Background 3	Background 3
Sample Interval				2 - 3 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs	0 - 0.5 feet bgs	2 - 3 feet bgs
Lab Identification	Direct Contact (^{1st} Soil _{comb})	protection of groundwater (^{GW} Soil _{1sq})	Ecological Screening Values	FA41805-10	FA41805-11	FA41805-12	FA41805-13	FA41805-14	FA41805-15	FA41805-16	FA41805-17	FA41805-18	FA41805-19
Date				3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix				Soil	Soil-Parent	Soil- Field Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<i>Metals by Method SW846 6020A</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>
Aluminum	64,000	86,000	N/A	6,970	4,200	4,980	4,920	3,810J	4,450	4,750	4,940	2,770	4,320
Antimony	15	2.7	5	0.074 J	0.16 J	0.13 J	0.12 J	0.10 J	0.092 J	0.088 J	0.079 J	0.077 J	0.076 J
Arsenic	24	2.5	18	2.8	1.8	2.0	2.2	1.6	2.3	2.0	3.1	1.5	2.3
Barium	8,100	220	330	117	34.7	41.0	41.6	28.6J	92.2	38.4	112	21.2	54.4
Beryllium	38	0.92	10	0.39 J	0.23 J	0.30 J	0.32 J	0.22 J	0.26 J	0.23 J	0.25 J	0.20 J	0.21 J
Cadmium	51	0.75	32	0.22 U	0.072 J	0.073 J	0.047 J	0.068 J	0.047 J	0.039 J	0.25 U	0.057 J	0.047 J
Calcium	N/A	N/A	N/A	124,000	7,490	8,760	8,480	1,790	113,000	3,410	142,000	1,070	35,100
Chromium	27,000	1,200	30	5.6	5.2	5.6	5.9	4.8	4.1	5.7	4.2	3.8	5.5
Cobalt	370	110	13	2.1	1.8	1.9	2.0	1.5	2.3	1.9	2.2	1.2	1.8
Copper	1,300	520	70	1.2	2.9	3.0	2.8	2.8	1.8	2.7	1.4	2.0	2.2
Iron	N/A	N/A	N/A	5,170	6,140	6,470	6,560	5310J	4,230	6,350	4,030	4,410	5,500
Lead	500	1.5	120	3.3	4.9	4.8	4.1	4.6	2.7	3.9	2.5	4.0	3.5
Magnesium	N/A	N/A	N/A	7,140	1,220	1,360	1,460	1,020	4,650	1,340	8,300	732	1,530
Manganese	3,800	580	300	40.5	68.6	75.7	76.7	64.6J	44.8	81.0	38.8	49.9	56.9
Nickel	840	79	38	5.6	4.0	3.9	4.1	3.1	5.2	4.0	5.6	2.2	3.9
Potassium	N/A	N/A	N/A	761	1000	1130	1250	1060	677	1310	673	739	877
Selenium	310	1.1	0.52	1.9	1.8	2.2	2.1	1.8	1.4	2.0	1.4	1.4	1.9
Silver	97	0.24	560	0.22 U	0.21 U	0.20 U	0.23 U	0.20 UJ	0.23 U	0.17 U	0.25 U	0.16 U	0.17 U
Sodium	N/A	N/A	N/A	638	21.8 J	36.6 J	26.4 J	18.7 J	235	24.0 J	638	14.2 J	30.8 J
Thallium	5.3	0.87	1	0.052 J	0.048 J	0.057 J	0.056 J	0.046 J	0.23 U	0.053 J	0.25 U	0.032 J	0.047 J
Vanadium	75	440	50	15.2	10.7	11.1	11.1	8.2J	9.9	9.9	16.1	7.9	10.0
Zinc	9,900	1,200	120	11.2J	18.3J	17.9J	16.6J	13.9J	10.1J	15J	9.7J	11.0J	13.1J
<i>Mercury by Method SW846 7471B</i>	<i>mg/Kg</i>	<i>mg/Kg</i>											
Mercury	2.1	0.0039	0.1	0.0065 J	0.0083 J	0.0080 J	0.0088 J	0.0090 J	0.0070 J	0.0098 J	0.0065 J	0.0096 J	0.0084 J

Notes:

(1) PALs, in italics, were selected as the most conservative screening value using the applicable Human Health Screening Values for residential soil groundwater (TRRP Tier 1 PCLs for residential soil, 30 acre source area) , and Ecological Screening Values (TCEQ Ecological Risk Assessment Pr Ecological Risk Assessments at Remediation Sites in Texas, January 2017, and TCEQ's Ecological Benchmark Soil Table (RF 263-B). Ecological F value of earthworm and plant. Revised August 2016. If the ecological PAL was lower than the TRRP Texas-Specific Background Concentration, th background value. <https://www.tceq.texas.gov/remediation/eco/eco.html>

(2) Background concentrations are the TRRP Texas-Specific Soil Background Concentrations [30 TAC 350.51(m)]

mg/Kg - milligrams per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the most conservative screening level

APPENDIX A-3
INORGANIC COMPOUND COMPARISON WITH SCREENING LEVELS
AND SITE BACKGROUND

Appendix A-3

Inorganic Compound Comparison with Screening Levels, Texas-Specific Background, and Site-Specific Background

Fort Bliss Far East Illegal Dump Site

Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs) ⁽¹⁾			TRRP Texas-Specific Soil Background Concentrations ⁽²⁾	Site-Specific Maximum Background Surface Soil ⁽³⁾	Site-Specific Maximum Background Subsurface Soil ⁽³⁾	FEIDS-SS1-S0-01	FEIDS-SS2-S0-02	FEIDS-SS3-S0-03	FEIDS-SS4-S0-04	FEIDS-SS5-S0-05	FEIDS-SS6-S0-06	FEIDS-SS7-S0-07	FEIDS-SS8-S0-08	FEIDS-SS9-S0-09
Grid/Location	Human Health Screening Values (mg/kg)		Ecological Screening Values				Grid 1	Grid 2	Grid 3	Grid 4	Grid 5	Grid 6	Grid 7	Grid 8	Grid 9
Sample Interval							0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs
Lab Identification	Direct Contact (^{1st} Soil _{C,omb})	protection of groundwater (^{GW} Soil _{Inq})					FA41730-2	FA41730-3	FA41730-4	FA41730-5	FA41762-2	FA41762-3	FA41762-4	FA41762-5	FA41762-6
Date							3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/3/17	3/3/17	3/3/17	3/3/17
Matrix							Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals by Method SW846 6020A	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	64,000	86,000	N/A	30,000	--	--	4,930J	5,850	5,810	5,480	4,670	5,970	5,250	4,740	4,430
Antimony	15	2.7	5	1	--	--	0.091 J	0.085 J	0.17 J	0.11 J	0.091 J	0.079 J	0.090 J	0.085 J	0.068 J
Arsenic	24	2.5	18	6	--	--	1.7	2.2	2.2	1.9	1.6	2.1	1.9	1.8	1.6
Barium	8,100	220	330	300	--	--	35.9	44.5	44.0	44.1	33.5	48.0	37.7	39.2	32.3
Beryllium	38	0.92	10	1.5	--	--	0.27 J	0.33 J	0.31 J	0.35 J	0.23 J	0.32 J	0.30 J	0.24 J	0.23 J
Cadmium	51	0.75	32	N/A	--	--	0.067 J	0.25 U	0.44 J	0.35 J	0.13 J	0.071 J	0.077 J	0.073 J	0.053 J
Calcium	N/A	N/A	N/A	N/A	--	--	4,050J	6,140	4,440	8,820	3,210	9,640	4,150	4,530	3,230
Chromium	27,000	1,200	30	30	5.7	--	5.0	5.8	56.9 ^X	5.8	4.5	5.8	5.5	4.9	4.3
Cobalt	370	110	13	7	--	--	1.6	1.9	2.1	1.9	1.5	1.9	1.8	1.7	1.5
Copper	1,300	520	70	15	--	--	2.7	2.9	11.5	9.8	4.6	3.5	3.4	3.4	2.5
Iron	N/A	N/A	N/A	15,000	--	--	5,160J	5,930	6,770	5,920	4,610	5,990	5,630	5,020	4,400
Lead	500	1.5	120	15	4.6	--	4.4	4.6	42.9 ^X	10.5	5.9	5.2	5.4	5.5	4.1
Magnesium	N/A	N/A	N/A	N/A	--	--	1,350	1,600	1,640	1,610	1,260	1,680	1,440	1,410	1,200
Manganese	3,800	580	300	300	--	--	64.0J	72.3	83.2	72.3	60.2	73.1	73.3	69.1	59.8
Nickel	840	79	38	10	--	--	3.7	4.5	6.1	5.3	3.6	4.6	4.0	3.9	3.7
Potassium	N/A	N/A	N/A	N/A	--	--	1,260	1,430	1,540	1,450	1,210	1,450	1,370	1,310	1,140
Selenium	310	1.1	0.52	0.3	2.0	1.9	1.8	2.1 ^X	2.1 ^X	2.3 ^X	1.9	2.2 ^X	2.1 ^X	1.9	1.8
Silver	97	0.24	560	N/A	--	--	0.24 UJ	0.25 U	0.24 U	0.24 U	0.23 U	0.25 U	0.25 U	0.23 U	0.24 U
Sodium	N/A	N/A	N/A	N/A	--	--	26.5 J	30.4 J	49.9	34.2 J	22.9 J	31.9 J	27.5 J	27.3 J	21.7 J
Thallium	5.3	0.87	1	N/A	--	--	0.066 J	0.065 J	0.063 J	0.060 J	0.052 J	0.066 J	0.058 J	0.055 J	0.24 U
Vanadium	75	440	50	50	--	--	8.0J	9.5	9.2	8.7	6.8	9.4	8.9	7.9	6.5
Zinc	9,900	1,200	120	30	--	--	15.8J	17.3J	77.2J	50.9J	23.2J	17.4J	17.5J	18.1J	14.1J
Mercury by Method SW846 7471B	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Mercury	2.1	0.0039	0.1	0.04	--	--	0.0098 J	0.013 J	0.0098 J	0.012 J	0.010 J	0.0098 J	0.0074 J	0.013 J	0.0096 J

Notes:

1) PALs, in italics, were selected as the most conservative screening value using the applicable Human Health Screening Values for residential soil and protection of groundwater (TRRP Tier 1 PCLs for residential soil, 30 acre source area) , and Ecological Screening Values (TCEQ Ecological Risk Assessment Program, Conducting Ecological Risk Assessments at Remediation Sites in Texas, January 2017, and TCEQ's Ecological Benchmark Soil Table (RF 263-B). Ecological PAL shown is the lowest value of earthworm and plant. Revised August 2016. If the ecological PAL was lower than the TRRP Texas-Specific Background Concentration, the ecological PAL is the background value. <https://www.tceq.texas.gov/remediation/eco/eco.html>

2) Background concentrations are the TRRP Texas-Specific Soil Background Concentrations [30 TAC 350.51(m)]

3) Site-Specific background concentration shown is the maximum concentration of the respective constituent from three background samples. Background comparison only conducted for constituents exceeding screening levels and the TRRP Texas-Specific Soil Background Concentration.

N/A - Not established

mg/Kg - milligrams per kilogram

J- The quantitation is an estimation.

U - Result is not detected

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the most conservative PAL values

Underlined results exceed TRRP Texas-Specific Soil Background Concentrations (evaluated only if a PAL was exceeded)

X - result exceeds the maximum Site-Specific Background Concentrations (evaluated only if a PAL and the TRRP Texas-Specific Soil Background Concentration were exceeded)

-- - none of the samples exceeded a PAL. Therefore, the site-specific maximum background concentration is not provided for comparison.

Appendix A-3
Inorganic Compound Comparison with Screening Levels, Texas-Specific Background, and Site-Specific Background
Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs) ⁽¹⁾			FEIDS-SS10-SO-10	FEIDS-SB1-SO-11	FEIDS-SB2-SO-12	FEIDS-SB3-SO-13	FEIDS-SB4-SO-14	FEIDS-SB5-SO-15	FEIDS-SB6-SO-16	FEIDS-SB7-SO-17	FEIDS-SB8-SO-18	FEIDS-SB9-SO-19	FEIDS-SB10-SO-20	FEIDS-SB11-SO-21
Grid/Location	Human Health Screening Values (mg/kg)			Grid 10	Grid 1	Grid 2	Grid 3	Grid 4	Grid 4	Grid 5	Grid 6	Grid 7	Grid 8	Grid 10	Grid 9
Sample Interval				0 - 0.5 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs	2 - 3 feet bgs
Lab Identification	Direct Contact (^{1st} Soil _{C,omb})	protection of groundwater (^{GW} Soil _{Inq})	Ecological Screening Values	FA41762-7	FA41762-8	FA41762-9	FA41805-2	FA41805-3	FA41805-4	FA41805-5	FA41805-6	FA41805-7	FA41805-8	FA41805-9	FA41805-10
Date				3/3/17	3/3/17	3/3/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix				Soil	Soil	Soil	Soil	Soil-Parent	Soil- Field Duplicate	Soil	Soil	Soil	Soil	Soil	Soil
Metals by Method SW846 6020A	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	64,000	86,000	N/A	4,080	3,550	3,620	4,770	4,420	4,770	4,680	4,860	4,720	4,700	7,210	6,970
Antimony	15	2.7	5	0.071 J	0.081 J	0.070 J	0.12 J	0.093 J	0.090 J	0.10 J	0.097 J	0.093 J	0.097 J	0.13 J	0.074 J
Arsenic	24	2.5	18	1.6	2.0	2.1	2.4	3.3	3.4	2.6	2.7	2.2	2.1	3.5	2.8
Barium	8,100	220	330	32.9	103	108	155	200	210	126	102	48.2	57.2	291	117
Beryllium	38	0.92	10	0.25 J	0.20 J	0.18 J	0.25 J	0.23 J	0.19 J	0.24 J	0.17 J	0.35 J	0.35 J	0.31 J	0.39 J
Cadmium	51	0.75	32	0.23 U	0.24 U	0.25 U	0.081 J	0.094 J	0.093 J	0.048 J	0.23 U	0.042 J	0.045 J	0.23 U	0.22 U
Calcium	N/A	N/A	N/A	5,730	121,000	144,000	99,000	176,000	184,000	99,400	96,000	9,630	11,400	77,100	124,000
Chromium	27,000	1,200	30	3.9	2.8	2.4	5.5	3.9	4.0	5.4	5.0	5.7	6.1	6.7	5.6
Cobalt	370	110	13	1.3	1.4	1.5	2.0	1.9	2.1	2.1	2.1	1.9	2.2	2.5	2.1
Copper	1,300	520	70	2.2	1.5	0.84	2.0	2.1	2.2	2.2	2.1	2.6	2.9	3.5	1.2
Iron	N/A	N/A	N/A	4,050	2,430	2,180	4,600	3,500	3,620	4,770	4,600	6,010	6,510	6,500	5,170
Lead	500	1.5	120	3.4	2.0	2.1	3.6	3.8	3.9	2.7	2.8	4.0	4.3	3.7	3.3
Magnesium	N/A	N/A	N/A	1,140	7,490	6,370	5,150	7,570	7,780	3,950	5,360	1,500	1,460	15,300	7,140
Manganese	3,800	580	300	51.8	24.0	24.6	46.0	36.0	36.7	50.1	43.9	69.5	85.4	71.7	40.5
Nickel	840	79	38	3.1	4.0	4.7	5.2	4.9	5.4	4.3	5.4	4.2	4.4	5.9	5.6
Potassium	N/A	N/A	N/A	972	447	353	851	594	619	852	797	1,010	926	1,200	761
Selenium	310	1.1	0.52	1.4	1.5	1.4	1.4	1.1	1.3	1.5	1.6	2.1 ^X	2.0 ^X	2.1 ^X	1.9 ^X
Silver	97	0.24	560	0.23 U	0.24 U	0.25 U	0.26 U	0.21 U	0.23 U	0.24 U	0.23 U	0.18 U	0.22 U	0.23 U	0.22 U
Sodium	N/A	N/A	N/A	21.9 J	606	500	343	214	224	228	178	38.6	32.5 J	110	638
Thallium	5.3	0.87	1	0.045 J	0.24 U	0.25 U	0.26 U	0.21 U	0.23 U	0.24 U	0.23 U	0.053 J	0.057 J	0.062 J	0.052 J
Vanadium	75	440	50	6.2	8.2	7.7	11.6	12.0	12.3	11.0	12.0	10.4	11.7	19.9	15.2
Zinc	9,900	1,200	120	12.3J	12.7J	7.3J	12.9J	16.7J	16.5J	12.7J	11.4J	14.6J	16.4J	15.2J	11.2J
Mercury by Method SW846 7471B	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg				
Mercury	2.1	0.0039	0.1	0.0095 J	0.015 U	0.016 U	0.017 U	0.017 U	0.0099 J	0.010 J	0.0085 J	0.014 J	0.0089 J	0.012 J	0.0065 J

Notes:

1) PALs, in italics, were selected as the most conservative screening value using the applicable Human Health Screening Values for residential soil soil, 30 acre source area) , and Ecological Screening Values (TCEQ Ecological Risk Assessment Program, Conducting Ecological Risk Assessment Ecological Benchmark Soil Table (RF 263-B). Ecological PAL shown is the lowest value of earthworm and plant. Revised August 2016. If the eco Concentration, the ecological PAL is the background value. <https://www.tceq.texas.gov/remediation/eco/eco.html>

2) Background concentrations are the TRRP Texas-Specific Soil Background Concentrations [30 TAC 350.51(m)]

3) Site-Specific background concentration shown is the maximum concentration of the respective constituent from three background samples. Back screening levels and the TRRP Texas-Specific Soil Background Concentration.

N/A - Not established

mg/Kg - milligrams per kilogram

J- The quantitation is an estimation.

U - Result is not detected

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the most conservative PAL values

Underlined results exceed TRRP Texas-Specific Soil Background Concentrations (evaluated only if a PAL was exceeded)

X - result exceeds the maximum Site-Specific Background Concentrations (evaluated only if a PAL and the TRRP Texas-Specific Soil Background

-- none of the samples exceeded a PAL. Therefore, the site-specific maximum background concentration is not provided for comparison.

Appendix A-3

Inorganic Compound Comparison with Screening Levels, Texas-Specific Background, and Site-Specific Background

Fort Bliss Far East Illegal Dump Site

Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs) ⁽¹⁾			FEIDS-SS11-SO-22	FEIDS-SS12-SO-23	FEIDS-SS13-SO-23
Grid/Location	Human Health Screening Values (mg/kg)			North of Grid 1	North of Grid 1	South of Grid 8
Sample Interval				0 - 0.5 feet bgs	0 - 0.5 feet bgs	0 - 0.5 feet bgs
Lab Identification	Direct Contact (^{1st} Soil _{C,omb})	protection of groundwater (^{GW} Soil _{Inq})	Ecological Screening Values	FA41805-11	FA41805-12	FA41805-13
Date				3/6/17	3/6/17	3/6/17
Matrix				Soil-Parent	Soil- Field Duplicate	Soil
<i>Metals by Method SW846 6020A</i>				<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>
Aluminum	64,000	86,000	N/A	4,200	4,980	4,920
Antimony	15	2.7	5	0.16 J	0.13 J	0.12 J
Arsenic	24	2.5	18	1.8	2.0	2.2
Barium	8,100	220	330	34.7	41.0	41.6
Beryllium	38	0.92	10	0.23 J	0.30 J	0.32 J
Cadmium	51	0.75	32	0.072 J	0.073 J	0.047 J
Calcium	N/A	N/A	N/A	7,490	8,760	8,480
Chromium	27,000	1,200	30	5.2	5.6	5.9
Cobalt	370	110	13	1.8	1.9	2.0
Copper	1,300	520	70	2.9	3.0	2.8
Iron	N/A	N/A	N/A	6,140	6,470	6,560
Lead	500	1.5	120	4.9	4.8	4.1
Magnesium	N/A	N/A	N/A	1,220	1,360	1,460
Manganese	3,800	580	300	68.6	75.7	76.7
Nickel	840	79	38	4.0	3.9	4.1
Potassium	N/A	N/A	N/A	1,000	1,130	1,250
Selenium	310	1.1	0.52	1.8	2.2 ^X	2.1 ^X
Silver	97	0.24	560	0.21 U	0.20 U	0.23 U
Sodium	N/A	N/A	N/A	21.8 J	36.6 J	26.4 J
Thallium	5.3	0.87	1	0.048 J	0.057 J	0.056 J
Vanadium	75	440	50	10.7	11.1	11.1
Zinc	9,900	1,200	120	18.3J	17.9J	16.6J
<i>Mercury by Method SW846 7471B</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>			
Mercury	2.1	0.0039	0.1	0.0083 J	0.0080 J	0.0088 J

Notes:

1) PALs, in italics, were selected as the most conservative screening value using the applicable Human Health Screening Values for residential soil soil, 30 acre source area) , and Ecological Screening Values (TCEQ Ecological Risk Assessment Program, Conducting Ecological Risk Assessment Ecological Benchmark Soil Table (RF 263-B). Ecological PAL shown is the lowest value of earthworm and plant. Revised August 2016. If the eco Concentration, the ecological PAL is the background value. <https://www.tceq.texas.gov/remediation/eco/eco.html>

2) Background concentrations are the TRRP Texas-Specific Soil Background Concentrations [30 TAC 350.51(m)]

3) Site-Specific background concentration shown is the maximum concentration of the respective constituent from three background samples. Back screening levels and the TRRP Texas-Specific Soil Background Concentration.

N/A - Not established

mg/Kg - milligrams per kilogram

J- The quantitation is an estimation.

U - Result is not detected

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the most conservative PAL values

Underlined results exceed TRRP Texas-Specific Soil Background Concentrations (evaluated only if a PAL was exceeded)

X - result exceeds the maximum Site-Specific Background Concentrations (evaluated only if a PAL and the TRRP Texas-Specific Soil Background

-- none of the samples exceeded a PAL.. Therefore, the site-specific maximum background concentration is not provided for comparison.

**APPENDIX A-4
QUALITY ASSURANCE REPORT**



Environmental Remediation (ER) Services at Four Installation Restoration Program (IRP) Sites and Military Munitions Program Sites at Fort Bliss, Texas, Site Investigation at the Far East Illegal Dump Site (FEIDS)

PREPARED FOR: DEPARTMENT OF THE ARMY, U.S. ARMY
ENVIRONMENTAL COMMAND, Fort Sam Houston,
TX,

COMPLIANCE REVIEW BY: (b) (6) / Senior Chemist

SENIOR REVIEW BY: (b) (6) / Senior Chemist

COPIES: (b) (6) Project Manager

DATE: May 7, 2017

SUBJECT: Quality Assurance Report (QAR) for Site Investigation
Soil Sampling, Accutest Laboratories, Inc., Orlando,
FL, Three SDGs, Sampled March 2017

CAPE has prepared this quality assurance report (QAR) for thirty Site Investigation soil samples, three trip blank (TB) samples, and two field duplicate (FD) samples collected in March 2017, and analyzed by Accutest Laboratories, Inc., Orlando, FL.

A list of the samples by Sample Delivery Group (SDG) is as follows:

SDG	Field Sample Number	Type of Sample
FA41730 Sampled 3-2-17	FEIDS-TB-01	Trip blank
	FEIDS-SS1-SO-01	ISM Soil Sample
	FEIDS-SS2-SO-02	ISM Soil Sample
	FEIDS-SS3-SO-03	ISM Soil Sample
	FEIDS-SS4-SO-04	ISM Soil Sample
FA41762 Sampled 3-3-17	FEIDS-TB-02	Trip Blank
	FEIDS-SS5-SO-05	ISM Field Sample
	FEIDS-SS6-SO-06	ISM Field Sample
	FEIDS-SS7-SO-07	ISM Field Sample
	FEIDS-SS8-SO-08	ISM Field Sample

FA-41762 Cont'd	FEIDS-SS9-SO-09	ISM Field Sample
	FEIDS-SS10-SO-10	ISM Field Sample
	FEIDS-SB1-SO-11	ISM Field Sample
	FEIDS-SB2-SO-12	ISM Field Sample
FA41805 Sampled 3-6-17	FEIDS-TB-03	Trip Blank
	FEIDS-SB3-SO-13	Field Sample
	FEIDS-SB4-SO-14	Parent of FEIDS-SB5-SO-15
	FEIDS-SB5-SO-15	Field Duplicate of FEIDS-SB4-SO-14
	FEIDS-SB6-SO-16	Field Sample
	FEIDS-SB7-SO-17	Field Sample
	FEIDS-SB8-SO-18	Field Sample
	FEIDS-SB9-SO-19	Field Sample
	FEIDS-SB10-SO-20	Field Sample
	FEIDS-SB11-SO-21	Field Sample
	FEIDS-SS11-SO-22	Parent of FEIDS-SS12-SO-23
	FEIDS-SS12-SO-23	Field Duplicate of FEIDS-SS11-SO-22
	FEIDS-SS13-SO-23	Field Sample
	FEIDS-SS14-SO-24	Field Sample
	FEIDS-SB12-SO-25	Field Sample
	FEIDS-SS15-SO-26	Field Sample
	FEIDS-SB13-SO-27	Field Sample
	FEIDS-SS16-SO-28	Field Sample
	FEIDS-SB14-SO-29	Field Sample

The samples for Volatile Organic Compounds (VOCs) in all three SDGs were collected in pre-weighed vials. The sampling team added additional clear tape over the sample labels to prevent smearing of the labels in the ice and water in the coolers. This altered the pre-weight of the vials, and the VOC sample weights are now estimated. With estimated sample weights, the results are

also estimated, and all VOC data, except the TBs, in all three SDGs are qualified “J” for positive results and “UJ” for non-detects.

The non-VOC samples in SDGs FA41730 and FA41762 are Integrated Sampling Methodology (ISM) samples collected from 15-points within a grid. These samples were sieved and air-dried in the laboratory. The percent solids are assumed to be 100%.

The non-VOC samples in SDG FA41805 are not ISM samples, and the laboratory performed a %Solids analysis on each sample, and corrected the results for %Solids.

The chain-of-custody (COC) forms provided in Attachment I present a summary of the CAPE sample identification numbers, dates of collection, sample matrices, and the analyses requested.

The samples were analyzed by Accutest Southeast, Orlando, FL by the following methods:

Volatile Organic Compounds (VOCs) by SW-846 Method 8260B;
Semivolatile Organic Compounds (SVOCs) by SW-846 Method 8270D;
Chlorinated Herbicides by SW-846 Method 8151A;
Organochlorine Pesticides by SW-846 Method 8081B;
Polychlorinated Biphenyls (PCBs) by SW-846 Method 8082A; and
Total Metals/Mercury by SW-846 Methods 6020A/7471B.

The Diesel Range Organics (DRO) by Method TX1005 were analyzed by Gulf Coast Analytical Laboratories (GCAL), LLC, Baton Rouge, LA.

The analyses requested for the samples can be found on the attached chain of custody (COC) forms and on the attached data summary table. The specific analytes requested for the method can be found in the attached data summary table and on the Form 1's.

The samples were analyzed in accordance with the *Department of Defense (DoD), Department of Energy (DOE), Consolidated Quality Systems Manual (QSM) for Environmental Laboratories*, Version 5.0, July 2013. Samples were validated against the DoD-QSM and a modified *USEPA Contract Laboratory Program National Functional Guidelines for Data Review*, September 2016. When specific guidance was not available, the data was evaluated in a conservative manner consistent with USEPA standards using best professional judgement.

The findings of this QAR are based upon the comprehensive review of the following result summaries reported according to the EPA Level IV data deliverables format: COC documentation; holding times; sample preservation; laboratory control sample (LCS) recoveries; matrix spike/matrix spike duplicate (MS/MSD) recoveries and reproducibilities; laboratory method blanks (MB), trip blanks (TB); initial calibrations and initial calibration verifications (ICAL/ICV); continuing calibration verifications (CCV); target compound identification; compound quantitation; initial and continuing calibration blanks (ICB/CCB); internal standards and retention times (IS/RT); tuning criteria; second column confirmation; manual integrations; surrogate recoveries; interference check standards (ICS); post-digestion spikes (PDS); serial dilutions; field duplicates (FD); and, reporting limits.

Any aspects of the data, which are not discussed in this report, should be considered qualitatively and quantitatively valid as reported, based on the deliverables reviewed. Annotated data summary reports presenting the validated results are presented in Attachment II.

GENERAL DATA QUALIFIERS

As required by DoD protocols, all compounds which were qualitatively identified at concentrations below their Limit of Quantitation (LOQ) have been qualified with a "J" qualifier on the data summary reports to indicate they are quantitative estimates. Non-detect results have been reported at the Limit of Detection (LOD) with a "U" qualifier.

There were no problems with the TX1005 TPH data from GCAL that required any qualification of data. Based on results from the TX1005 data, the laboratory did not have to perform the TX1006 method.

COMMENTS ON DATA VALIDATION

SDG FA41730

For VOCs, with estimated sample weights, the results are also estimated, and all VOC data in the SDG were qualified "J" for positive results and "UJ" for non-detects, except for TBs. See previous discussion above.

For VOCs, the MS/MSD was performed on Sample FEIDS-SS1-SO-01 for the soils and a non-CAPE sample for the TB. The MS/MSD with the soils reported low recoveries for Hexachlorobutadiene and Vinyl acetate. Both of these compounds were non-detect in the parent sample and were qualified "UJ". The MS/MSD with the TB reported multiple compounds with elevated recoveries. This analysis was performed on a non-CAPE sample, so no qualification of data was required due to different matrices.

For VOCs, the LCS performed with the TB exhibited an elevated recovery for Benzene. Benzene was non-detect in the sample and no qualification of data was required for an elevated recovery.

For VOCs, the TB reported Toluene. Toluene was a positive result only in Sample FEIDS-SS4-SO-04, and Toluene was qualified "B" in that sample. Since it was already qualified "J", it is now qualified "JB".

For VOCs, Acetone exhibited a low average relative response factor (RRF) (0.032) in all of the calibrations. The DoD-QSM does not address the issue, but the UFP-QAPP for the project says the RRF must be >0.03 for routine compounds and >0.01 for poor responders. Acetone is listed as a poor responder, and no qualification of data was required.

For SVOCs, the MS/MSD was performed on a non-CAPE sample. Several compounds exhibited low recoveries and a couple of compounds failed the RPD criteria. This analysis was performed on a non-CAPE sample, so no qualification of data was required due to different matrices.

For SVOCs, 3,3'-Dichlorobenzidine exceeded the upper acceptance criteria in the LCS. Since 3,3'-Dichlorobenzidine was non-detect in all of the samples, no qualification of data was required for an elevated LCS recovery.

For SVOCs, the ICV failed criteria for 4-Chloroaniline, 3-Nitroaniline, Benzidine, and 3,3'-Dichlorobenzidine. Per the DoD-QSM, and the project UPF-QAPP, no samples are to be analyzed without an acceptable ICV, and flagging is not appropriate. These compounds were non-detect in the soil samples and the NFG qualifies these compounds "UJ". The compounds were qualified "UJ" per the NFG. The lab apparently assumed it was acceptable to continue with the analyses if the failed compounds were non-detect.

For pesticides, the MS/MSD was performed on Sample FEIDS-SS2-SO-02. Alpha-Chlordane and gamma-chlordane exhibited elevated recoveries in the MSD. Per the DoD-QSM, these two compounds were qualified "UJ" in the parent sample.

For Pesticides, alpha-Chlordane, alpha-BHC, and gamma-Chlordane exhibited elevated recoveries in the LCS. All three compounds were non-detect in the samples, and no qualification of data was required for non-detects and elevated recoveries.

For PCBs, Aroclor 1254 failed criteria on both columns in the CCVs analyzed before and after the samples. Aroclor 1254 was non-detect in all samples and was qualified "UJ" in all samples.

For Herbicides, the surrogate recoveries in all samples exhibited extremely low recoveries (<5%R). The samples were re-analyzed, as required by the method, with acceptable recoveries; however, the re-analyses were performed outside of holding times. All results were non-detect. The laboratory reported the original results. All Herbicides in all samples were qualified "UJ".

For Herbicides, the MS/MSD was performed on Sample FEIDS-SS3-SO-03. Dicamba, Dinoseb, Dalapon, Dichloroprop, and Pentachlorophenol exhibited low recoveries. These five compounds were non-detect in the parent sample, and were qualified "UJ" in the parent sample.

For Herbicides, Dinoseb exhibited a low recovery in the LCS. Dinoseb was non-detect in all samples and was qualified "UJ".

For Herbicides, Pentachlorophenol failed criteria in the ICV. Per the DoD-QSM, and the project UPF-QAPP, no samples are to be analyzed without an acceptable ICV, and flagging is not appropriate. These compounds were non-detect in the soil samples and the NFG qualifies these compounds "UJ". The compounds were qualified "UJ" per the NFG. The lab apparently assumed it was acceptable to continue with the analyses if the compounds were non-detect.

For Herbicides, Dinoseb failed criteria on both columns in the CCV analyzed just after the samples. Dinoseb was non-detect in all of the samples and was qualified "UJ".

For Metals, the Contract Required Detection Limit Check Standard (CRI) exhibited elevated recoveries for Selenium and Zinc. Data are not qualified for failed CRIs.

For Metals, the MS/MSD was performed on Sample FEIDS-SS1-SO-01. Calcium exhibited elevated recoveries, and Aluminum, Antimony, Iron, Manganese, and Vanadium exhibited low

recoveries. Positive results for Calcium were qualified "J" in the parent sample. Positive results were qualified "J" and non-detects were qualified "UJ" for Aluminum, Antimony, Iron, Manganese, and Vanadium in the parent sample. Beryllium and Cadmium failed criteria in the laboratory duplicates. Beryllium and Cadmium were not qualified.

For Metals, Zinc failed the 10%D criteria in the Serial Dilution. Zinc was positive and was qualified "J" in all samples.

For Metals, the PDS was performed on Sample FEIDS-SS1-SO-01. Manganese and Silver failed criteria. Both elements were qualified "J" for positive results and "UJ" for non-detects in the parent sample.

SDG FA41762

For VOCs, with estimated sample weights, the results are also estimated, and all VOC data in the SDG, except the TBs, were qualified "J" for positive results and "UJ" for non-detects. See previous discussion above.

For VOCs, both MS/MSDs were performed on non-CAPE samples. A number of compounds exhibited low recoveries in the MS/MSD analyzed with the soil samples. The MS/MSD analyzed with the TB was acceptable. Since these were non-CAPE samples, no qualification of data was required for different matrices.

For VOCs, the LCS analyzed with the soil samples exhibited an elevated recovery for 2-Butanone. 2-Butanone was non-detect in all samples and the recovery was elevated, so no qualification of data was required.

For VOCs, the TB reported Toluene at 0.70 µg/L. Toluene was non-detect in all samples and no qualification of data was required.

For VOCs, the MB associated with the soil samples reported Methylene chloride. Methylene chloride was non-detect in all of the samples, and no qualification of data was required.

For VOCs, the IS#4 exhibited a low are count in Sample FEIDS-SB2-SO-12. The DoD-QSM says flagging of data is not appropriate.

For VOCs, the CCV associated with the soil samples failed criteria for Vinyl acetate. Vinyl acetate was non-detect in all of the soil samples and was qualified "UJ".

For SVOCs, both MS/MSDs were performed on non-CAPE samples. Several compounds exhibited low recoveries and a couple of compounds failed the RPD criteria. Since these were non-CAPE samples, no qualification of data was required for different matrices.

For SVOCs, 3,3'-Dichlorobenzidine exceeded the upper acceptance criteria in the LCS analyzed with the first six samples. Since 3,3'-Dichlorobenzidine was non-detect in all of the samples, no qualification of data was required for an elevated LCS recovery.

For SVOCs, the ICV failed criteria for 4-Chloroaniline, 3-Nitroaniline, Benzidine, and 3,3'-Dichlorobenzidine. Per the DoD-QSM, and the project UPF-QAPP, no samples are to be

analyzed without an acceptable ICV, and flagging is not appropriate. These compounds were non-detect in the soil samples and the NFG qualifies these compounds "UJ". These data were qualified "UJ" in the first six soil samples.

For SVOCs, the Phenol-d5 surrogate exhibited elevated recoveries in Samples FEIDS-SB1-SO-11 and FEIDS-SB2-SO-12. All of the phenolic compounds are non-detect in these two samples, and no qualification of data was required with non-detects and an elevated recovery.

For SVOCs, the CCV associated with Samples FEIDS-SB1-SO-11 and FEIDS-SB1-SO-12 failed criteria for Pyridine and Benzidine. Both compounds were non-detect, and were qualified "UJ" in these two samples.

For pesticides, the LCS associated with the first six samples exhibited elevated recoveries for alpha-BHC, alpha-Chlordane and gamma-Chlordane. All three compounds were non-detect in the first six samples and no qualification of data was required for non-detects with elevated recoveries. The LCS associated with Samples FEIDS-SB1-SO-11 and FEIDS-SB2-SO-12 exhibited an elevated recovery for Methoxychlor. Methoxychlor was non-detect in both samples and no qualification of data was required for non-detects and elevated recoveries.

For pesticides, the MS/MSD analyzed with the first six samples was performed on Sample FEIDS-SS1-SO-01 from SDG FA41730, and the MS/MSD analyzed with the last two samples was a non-CAPE samples. Alpha-Chlordane and gamma-Chlordane exhibited elevated recoveries in the first MS/MSD and the second MS/MSD was acceptable. Only the parent sample was qualified in SDG 41730. No qualification of data was required in this SDG.

For pesticides, the CCV associated with the last two samples failed criteria for Methoxychlor. This compound was non-detect in both samples and was qualified "UJ".

For PCBs, Aroclor 1254 failed criteria on both columns in the CCVs analyzed before and after the first six samples. Aroclor 1254 was non-detect in all six samples and was qualified "UJ" in all six samples.

For Herbicides, the surrogate recoveries in all nine samples exhibited extremely low recoveries (<5%R). The samples were re-analyzed, as required by the method, with acceptable recoveries; however, the re-analyses were performed outside of holding times. All results were non-detect. The laboratory reported the original results. All Herbicides in all nine samples were qualified "UJ".

For Herbicides, the MS/MSD associated with the first six samples was performed on Sample FEIDS-SS3-SO-03 from SDG FA41730. Dicamba, Dinoseb, Dalapon, Dichloroprop, and Pentachlorophenol exhibited low recoveries. These compounds were qualified "UJ" in the parent sample in SDG FA41730. No qualification of data was required in this SDG.

For Herbicides, the MS/MSD associated with the last two samples was performed on Sample FEIDS-SS14-SO-24 from SDG FA41805. Dicamba, Dalapon, and Dichloroprop exhibited low recoveries. These compounds were qualified "UJ" in the parent sample in SDG FA41805. No qualification of data was required in this SDG.

For Herbicides, Dinoseb exhibited a low recovery in the LCS analyzed with the first six samples. Dinoseb was non-detect in all six samples and was qualified "UJ".

For Metals, the Contract Required Detection Limit Check Standard (CRI) associated with the first six samples exhibited elevated recoveries for Selenium and Zinc. Data are not qualified for failed CRIs.

For Metals, the MS/MSD associated with the first six samples was performed on Sample FEIDS-SS1-SO-01 from SDG FA47130. Calcium exhibited elevated recoveries, and Aluminum, Antimony, Iron, Manganese, and Vanadium exhibited low recoveries. Positive results for Calcium were qualified "J" in the parent sample in SDG FA47130. Positive results were qualified "J" and non-detects were qualified "UJ" for Aluminum, Antimony, Iron, Manganese, and Vanadium in the parent sample. Beryllium and Cadmium failed criteria in the laboratory duplicates. Beryllium and Cadmium were not qualified. No qualification of data was required in this SDG.

For Metals, Zinc failed the 10%D criteria in the Serial Dilution analyzed with all eight samples. Zinc was positive and was qualified "J" in all eight samples.

For Metals, the PDS was performed on Sample FEIDS-SS1-SO-01 from SDG FA41730. Manganese and Silver failed criteria. Both elements were qualified "J" for positive results and "UJ" for non-detects in the parent sample in SDG FA41730. No qualification of data was required in this SDG.

SDG FA41805

For VOCs, with estimated sample weights, the results are also estimated, and all VOC data in the SDG, except for the TBs, were qualified "J" for positive results and "UJ" for non-detects. See previous discussion above.

For VOCs, there were four MS/MSDs. The MS/MSD performed with the TB was a non-CAPE sample and was acceptable. No qualification of the TB was required. The MS/MSD performed with laboratory numbered samples 2-12 and 15 and 16 was performed on a non-CAPE sample. Fifteen compounds exhibited low recoveries, but no qualification of data was required with different matrices. The MS/MSD performed with samples 14 and 17-19 exhibited low recoveries for 24 compounds and was performed on Sample FEIDS-SS14-SO-24. The parent sample was non-detect for all 24 compounds and would have been qualified "UJ" for all 24 compounds. All VOC data in the SDG were already qualified "J" for positive results and "UJ" for non-detects due to estimated sample weights. See previous discussion above. The MS/MSD performed with Sample FEIDS-SS13-DO-24 exhibited low recoveries for seven compounds. The parent sample was non-detect for all seven compounds and would have been qualified "UJ" for all seven compounds. All VOC data in the SDG were already qualified "J" for positive results and "UJ" for non-detects due to estimated sample weights. See previous discussion above.

For VOCs, the LCS analyzed with laboratory sample numbers 14, and 17-19, exhibited elevated recoveries for 2-Hexanone, 4-Methyl-2-pentanone and Styrene. All three of these compounds

were non-detect in these samples and no qualification of data was required for elevated recoveries.

For VOCs, the TB reported Toluene. Toluene was non-detect in all samples and no qualification of data was required. The MB associated with Sample 14, and 17-19 reported Methylene chloride. Methylene chloride was non-detect in all four samples and no qualification of data was required. The MB associated with Sample 13 reported Methylene chloride, but Methylene chloride was non-detect in the sample and no qualification of data was required.

For VOCs, the CCV analyzed prior to Samples 14 and 17-19 failed criteria for Dichlorodifluoromethane and Trichlorofluoromethane. Both of these compounds were non-detect in all four samples and were qualified "UJ". The CCV analyzed just after Samples 14 and 17-19 failed criteria for Acetone, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, n-Butylbenzene, Hexachlorobutadiene, 1,2,3-Trichlorobenzene and Vinyl acetate. All were non-detect in the four samples and were qualified "UJ".

For SVOCs, the Phenol-d5 surrogate exhibited elevated recoveries in all samples in the SDG. All of the phenolic compounds were non-detect in the samples, and no qualification of data was required with an elevated recovery.

For SVOCs, the MS/MSD associated with Samples 2-15 was performed on Sample FEIDS-SS14-SO-24. The MS/MSD exhibited low recoveries for Benzoic acid and Benzidine. Both compounds were non-detect in the parent sample and were qualified "UJ". Bis(2-Ethylhexyl)phthalate and Isophorone exhibited elevated recoveries in the MS/MSD performed on Sample FEIDS-SS14-SO-24. Both compounds were non-detect in the parent sample and no qualification of data was required for elevated recoveries. The MS/MSD associated with Sample 16-18 was performed on a non-CAPE sample. Benzoic acid exhibited a low response. No qualification of data was required for different matrices. The MS/MSD associated with Sample 19 was performed on a non-CAPE sample. Anthracene, Benzo(k)fluoranthene, Carbazole, 3,3'-Dichlorobenzidine, fluoranthene, and 4-Nitroaniline exhibited low recoveries. No qualification of data was required for different matrices.

For SVOCs, the LCS associated with Samples 2-15 exhibited elevated recoveries for Di-n-octylphthalate, bis(2-Ethylhexyl)phthalate, and Isophorone. These three compounds were non-detect in the associated samples and no qualification of data was required for elevated recoveries. The LCS associated with Sample 19 exhibited an elevated recovery for 3,3'-Dichlorobenzidine. This compound was non-detect in the associated sample and no qualification of data was required for elevated recoveries.

For SVOCs, the CCV analyzed just after Samples 2-15 failed criteria for Pyridine. Pyridine was non-detect in all of the associated samples and was qualified "UJ". The CCV analyzed before and after Samples 16-18 failed criteria for Pyridine. Pyridine was non-detect in these samples and was qualified "UJ".

For SVOCs, the ICV associated with Sample 19 failed criteria for 4-Chloroaniline, 3-Nitroaniline, Benzidine and 3,3'-Dichlorobenzidine. These compounds were non-detect in the sample and were qualified "UJ".

For pesticides, there were three MS/MSDs. The first was performed on a non-CAPE sample and was associated with Samples 2-8. There were no problems with this MS/MSD. The second was performed on Sample FEIDS-SB10-SO-20 and was associated with Samples 9-12. This MS/MSD exhibited a low recovery for Endosulfan-II. Endosulfan-II was non-detect in the parent sample and was qualified "UJ". The third MS/MSD was performed on Sample FEIDS-SS14-SO-24 and was associated with Sample 13-19. The sample exhibited elevated recoveries for alpha-BHC, 4,4'-DDT and gamma-Chlordane. These compounds were non-detect in the parent sample, and no qualification of data was required for an elevated recovery.

For pesticides, the CCV associated with Sample 2 failed criteria for Methoxychlor. Methoxychlor was non-detect in Sample 2 and was qualified "UJ". The CCVs associated with Samples 3-8 failed criteria for beta-BHC, delta-BHC, alpha-Chlordane, gamma-Chlordane, Dieldrin, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Endrin, Endosulfan sulfate, Endrin aldehyde, Endrin ketone, Endosulfan-II, Heptachlor epoxide, and Methoxychlor. All of these compounds were non-detect in all six samples and were qualified "UJ".

For pesticides, the LCS associated with Samples 2-8 exhibited elevated recoveries for Methoxychlor. Methoxychlor was non-detect in all seven samples but no qualification of data was required for elevated recoveries. The LCS associated with Samples 13-19 exhibited elevated recoveries for alpha-BHC, beta-BHC and Endosulfan sulfate. These three compounds were non-detect in all seven samples and no qualification of data was required for elevated recoveries.

For PCBs, the MS/MSD associated with Samples 11-12 was performed on a non-CAPE sample. Aroclor 1260 exhibited an elevated recovery and no qualification of data was required for different matrices.

For Herbicides, the surrogate recoveries in all samples in the SDG exhibited extremely low recoveries (<5%R). The samples were re-analyzed, as required by the method, with acceptable recoveries; however, the re-analyses were performed outside of holding times. All results were non-detect. The laboratory reported the original results. All Herbicides in all samples were qualified "UJ".

For Herbicides, the MS/MSD associated with all sample was performed on Sample FEIDS-SS14-SO-24. Dicamba, Dalapon, and Dichloroprop exhibited low recoveries. The parent sample was qualified "UJ" for these three compounds.

For Herbicides, the ICV associated with all samples failed criteria for Pentachlorophenol. All samples were non-detect for Pentachlorophenol and were qualified "UJ".

For Herbicides, the CCV associated with Samples 2-7, 8-15 and 16-19 failed criteria for MCPA. These samples were non-detect for MCPA and were qualified "UJ".

For Metals, the Contract Required Detection Limit Check Standard (CRI) associated with all samples exhibited elevated recoveries for Selenium and Zinc. Data are not qualified for failed CRIs.

For Mercury, there were two serial dilutions and both reported a low positive result in the original analysis and a non-detect in the dilution. The %D is not calculated in this case and no qualification of data was required.

For metals, the MS/MSD was performed on Sample FEIDS-SS14-SO-24 and is associated with all samples. Aluminum, Barium, Iron, Manganese and Vanadium exhibited elevated recoveries. These analytes were qualified "J" for positive results in the parent sample. Antimony exhibited a low recovery, and Antimony was positive and qualified "J" in the parent sample.

For metals, the serial dilution was performed on Sample FEIDS-SS14-SO-24. Zinc failed the criteria. Zinc was positive in all samples and was qualified "J".

For metals, the PDS was performed on Sample FEIDS-SS14-SO-24. The PDS exhibited elevated recoveries for Aluminum, Barium, Iron, Manganese and Zinc and positive results for these analytes were qualified "J" in the parent sample. Silver exhibited a low recovery and the ND result was qualified "UJ" in the parent sample.

PRECISION

Analytical precision is a measurement of the variability associated with duplicate (two) or replicate (more than two) analyses of the same sample in the laboratory. The analytical precision is measured by the Relative Percent Difference (RPD) in the LCS/LCSD and the MS/MSD analyses. Only an LCS was performed, so there is no precision data available from the LCS. Only the SVOCs exhibited an RPD problem between the MS and MSDs. No data were qualified due to RPD recovery problems, so analytical precision is acceptable for the project.

Field precision is a measurement of the total variability associated with duplicate (two) or replicate (more than two) samples collected separately in the field and analyzed together in the laboratory. There were two FDs collected for this project, and both were in SDG 41805 (See table listing samples per SDG above.) Both FDs met the CAPE 100RPD criteria for soil samples for all analytes. Field precision was acceptable.

ACCURACY

Accuracy is the degree of agreement found between an observed value and an accepted reference value. Accuracy includes components of random error (variability due to imprecision) and systematic error (bias); components which are due to sampling and analytical operations and is a data quality indicator. Accuracy, therefore, reflects the total error associated with a measurement. A measurement is accurate when the value reported does not differ from the true value. Analytical accuracy is evaluated by measuring the percent recovery (%R) of known concentrations of target analytes that are spiked into site specific samples (MS) or reagent water (LCS) before extraction, at known concentrations. Surrogate recoveries are also used to assess accuracy. LCS recoveries were a problem in several methods. Herbicides especially had

surrogate problems and all Herbicides were qualified due to these problems. MS/MSDs recoveries were a problem in several of the methods, but a large number of MS/MSDs were performed on non-CAPE samples.

REPRESENTATIVENESS

Representativeness is a measure of the degree to which data accurately and precisely represent a characteristic of a population, a parameter variation at a sampling point, a process condition, or an environmental condition. Representativeness was evaluated through the review of holding time criteria, and laboratory method blanks. Representativeness has also been achieved through use of the DoD, and EPA-approved sampling procedures and analytical methodologies. Samples were collected by CAPE following the procedures detailed in the project-specific Sampling and Analysis Plan (SAP) and submitted for analysis using the EPA-approved analytical methods detailed in the SAP.

Samples were shipped to the laboratory under chain of custody, received intact, and properly preserved. Sample receipt exceptions were noted for the samples in the area of estimated sample weights for the VOCs. Adherence to the procedures described in the SAP for this sampling event ensured that the results generated are representative of environmental conditions at the time of sampling.

COMPARABILITY

Comparability is a qualitative measure designed to express the confidence with which one data set may be compared with another. Adherence to proper sample collection and handling techniques described in the SAP, and the use of the promulgated EPA analytical methods described by the SAP ensure that this data set would be comparable with another future data set collected under the same conditions and analyzed by the same methods. The estimated sample results for the VOCs will necessitate an estimated comparison to other VOC results.

COMPLETENESS

Completeness is calculated from the aggregation of data for each method for any particular sampling event. For each method and each site, the number of valid results, divided by the number of individual analyte results initially planned, expressed as a percentage, determine the completeness for the data set. The objective for completeness for this project is 95 percent. Valid results used to meet completeness objectives are those results that provide defensible estimates of the true concentration of an analyte in a sample. These valid results include data that are not qualified and data for which quality control (QC) results indicate qualification is necessary, but which may still be used to meet project objectives. Invalid results are those data for which there is an indication that the prescribed sampling or analytical protocols were not followed. There was no incidence of non-valid data, and the completeness met the 95% project criteria.

$$\% \text{ Completeness} = \frac{\text{number of valid (non - R flagged) results}}{\text{total \# of reported results}}$$

REPORTING LIMITS AND DATA USABILITY

The LODs for the organic methods were below the Project Action Levels (PALs) with the exception of several SVOC and Herbicide compounds. No organic compound results exceeded the PALs. For Metals, all of the Lead and Selenium results, and most of the Mercury results exceeded the PALs. In addition, seven Arsenic, one Barium, and one Chromium result exceeded the PALs.

SUMMARY

All sample preservation; holding times; COC documentation; laboratory blanks; ICB/CCB; internal standards and retentions times; tuning criteria; second column confirmation; manual integrations; interference check standards; and, target compound identification were within project and method acceptance criteria, and did not require any qualification of data.

Overall, the quality of the analytical data met the QC limits established by the project DQOs, the analytical methods, and the data validation criteria.

Any aspect of the data not discussed in this report should be considered qualitatively and quantitatively valid, as reported, based on the deliverables reviewed. A support documentation package has been prepared for this quality assurance review and is filed in the Fort Bliss project file.

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-TB-01	FEIDS-SS1-S0-01	FEIDS-SS2-S0-02	FEIDS-SS3-S0-03	FEIDS-SS4-S0-04	FEIDS-TB-02	FEIDS-SS5-SO-05	FEIDS-SS6-SO-06	FEIDS-SS7-SO-07	FEIDS-SS8-SO-08	FEIDS-SS9-SO-09
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	FA41730-1	FA41730-2	FA41730-3	FA41730-4	FA41730-5	FA41762-1	FA41762-2	FA41762-3	FA41762-4	FA41762-5	FA41762-6
Date			3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/3/17	3/3/17	3/3/17	3/3/17
Matrix			AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	Soil
<i>TX1005</i>	<i>Project Action Levels (PALs)</i>	<i>mg/Kg</i>		<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>		<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>
Laboratory Identification				21703072001	21703072002	21703072003	21703072004		21703071901	21703071902	21703071903	21703071904	21703071905
>C12-C28	2,000	99	NA	38.8U	40.8U	38.5U	38.2U	NA	33.2U	31.5U	38.0U	38.8U	32.6U
>C28-C35	2,000	99	NA	38.8U	40.8U	38.5U	38.2U	NA	33.2U	31.5U	38.0U	38.8U	32.6U
C6-C12	1,100	33	NA	17.0U	17.8U	16.8U	16.7U	NA	14.5U	13.8U	16.6U	17.0U	14.3U
TOTAL TPH (C6-C35)			NA	38.8U	40.8U	38.5U	38.2U	NA	33.2U	31.5U	38.0U	38.8U	32.6U
<i>Volatiles (VOCs) by Method SW846.8260B</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/L</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/L</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Acetone	59,000,000	21,000	20 U	20 UJ	20 UJ	22 UJ	21 UJ	20 U	18 UJ	17 UJ	18 UJ	18 UJ	18 UJ
Benzene	69,000	13	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Bromobenzene	280,000	1,200	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Bromochloromethane	3,300,000	1,500	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Bromodichloromethane	98,000	33	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Bromoform	280,000	320	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
2-Butanone (MEK)	33,000,000	15,000	3.5 U	12 UJ	12 UJ	13 UJ	12 UJ	3.5 U	11 UJ	10 UJ	11 UJ	11 UJ	11 UJ
n-Butylbenzene	3,300,000	76,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
sec-Butylbenzene	3,300,000	42,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
tert-Butylbenzene	3,300,000	50,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Carbon Disulfide	3,300,000	6,800	1.0 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	1.0 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Carbon Tetrachloride	23,000	31	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Chlorobenzene	320,000	550	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Chloroethane	23,000,000	15,000	1.0 U	2.9 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Chloroform	8,000	510	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
o-Chlorotoluene	1,100,000	4,500	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
p-Chlorotoluene	1,600,000	5,400	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Dibromochloromethane	72,000	25	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,2-Dibromo-3-chloropropane	80	0.87	2.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	2.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2-Dibromoethane	430	0.10	1.0 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	1.0 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Dichlorodifluoromethane	750,000	120,000	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2-Dichlorobenzene	390,000	8,900	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,3-Dichlorobenzene	62,000	3,400	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,4-Dichlorobenzene	250,000	1,100	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1-Dichloroethane	8,800,000	9,200	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,2-Dichloroethane	6,400	6.9	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1-Dichloroethylene	1,600,000	25	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
cis-1,2-Dichloroethylene	120,000	120	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
trans-1,2-Dichloroethylene	370,000	250	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,2-Dichloropropane	31,000	11	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,3-Dichloropropane	26,000	32	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
2,2-Dichloropropane	31,000	60	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1-Dichloropropene	26,000	67	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
cis-1,3-Dichloropropene	7,800	3.3	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
trans-1,3-Dichloropropene	26,000	18	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Ethylbenzene	5,300,000	3,800	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Hexachlorobutadiene	12,000	1,600	1.0 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	1.0 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
2-Hexanone	210,000	160	5.0 U	12 UJ	12 UJ	13 UJ	12 UJ	5.0 U	11 UJ	10 UJ	11 UJ	11 UJ	11 UJ
Isopropylbenzene	3,000,000	170,000	0.50 U	1.6 UJ	1.6 UJ	1.3J	1.7 UJ	0.50 U	1.5 UJ	0.78J	1.4 UJ	1.4 UJ	1.4 UJ
p-Isopropyltoluene	8,200,000	120,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Methyl Bromide	29,000	65	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Methyl Chloride	84,000	200	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Methylene Bromide	42,000	560	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Methylene Chloride	1,500,000	6.5	4.0 U	4.1 UJ	4.1 UJ	4.5 UJ	4.1 UJ	4.0 U	3.7 UJ	3.5 UJ	3.5 UJ	3.6 UJ	3.6 UJ
4-Methyl-2-pentanone (MIBK)	5,400,000	2,500	2.0 U	12 UJ	12 UJ	13 UJ	12 UJ	2.0 U	11 UJ	10 UJ	11 UJ	11 UJ	11 UJ
Methyl Tert Butyl Ether	590,000	310	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Naphthalene	120,000	16,000	3.1 U	2.9 UJ	2.9 UJ	3.1 U	2.9 UJ	2.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
n-Propylbenzene	1,600,000	22,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Inq})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-TB-01	FEIDS-SS1-S0-01	FEIDS-SS2-S0-02	FEIDS-SS3-S0-03	FEIDS-SS4-S0-04	FEIDS-TB-02	FEIDS-SS5-S0-05	FEIDS-SS6-S0-06	FEIDS-SS7-S0-07	FEIDS-SS8-S0-08	FEIDS-SS9-S0-09
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	FA41730-1	FA41730-2	FA41730-3	FA41730-4	FA41730-5	FA41762-1	FA41762-2	FA41762-3	FA41762-4	FA41762-5	FA41762-6
Date			3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/3/17	3/3/17	3/3/17	3/3/17
Matrix			AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	Soil
Volatiles (VOCs) by Method SW846 8260B	ug/Kg	ug/Kg	ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Styrene	4,300,000	1,600	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1,1,2-Tetrachloroethane	39,000	710	0.50 U	1.8 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1,2,2-Tetrachloroethane	30,000	12	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Tetrachloroethylene	420,000	25	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Toluene	5,400,000	4,100	0.67J	1.6 UJ	1.6 UJ	1.8 UJ	1.0JB	0.70J	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.2J
1,2,3-Trichlorobenzene	87,000	13,000	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2,4-Trichlorobenzene	70,000	2,400	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,1,1-Trichloroethane	32,000,000	810	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,1,2-Trichloroethane	10,000	10	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Trichloroethylene	11,000	17	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Trichlorofluoromethane	25,000,000	64,000	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2,3-Trichloropropane	200	0.27	1.0 U	2.8 UJ	2.9 UJ	3.1 UJ	2.9 UJ	1.0 U	2.6 UJ	2.4 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2,4-Trimethylbenzene	79,000	24,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
1,3,5-Trimethylbenzene	59,000	27,000	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Vinyl Acetate	1,500,000	27,000	5.0 U	16 UJ	16 UJ	18 UJ	17 UJ	5.0 U	14 UJ	14 UJ	14 UJ	14 UJ	14 UJ
Vinyl Chloride	3,400	11	0.50 U	1.6 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
m,p-Xylene	4,700,000	53,000	1.0 U	3.2 UJ	3.3 UJ	3.6 UJ	3.3 UJ	1.0 U	3.0 UJ	2.8 UJ	2.8 UJ	2.8 UJ	2.9 UJ
o-Xylene	29,000,000	35,000	0.50 U	1.7 UJ	1.6 UJ	1.8 UJ	1.7 UJ	0.50 U	1.5 UJ	1.4 UJ	1.4 UJ	1.4 UJ	1.4 UJ
Semivolatiles (SVOCs) by Method SW846 8270D	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Benzoic Acid	270,000,000	95,000	NA	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U
4-Chloro-3-methyl Phenol	330,000	2,300	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2-Chlorophenol	410,000	820	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2,4-Dichlorophenol	200,000	180	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2,4-Dimethylphenol	1,300,000	1,600	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
2,4-Dinitrophenol	130,000	47	NA	500 U	500 U	500 U	500 U	NA	500 U	490 U	500 U	500 U	500 U
4,6-Dinitro-o-cresol	6,700	2.3	NA	130 U	130 U	130 U	130 U	NA	130 U	130 U	130 U	130 U	130 U
2-Methylphenol	3,300,000	3,600	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
3&4-Methylphenol	330,000	320	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
2-Nitrophenol	130,000	67	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
4-Nitrophenol	130,000	50	NA	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U
Pentachlorophenol	730	9.2	NA	330 U	330 U	330 U	330 U	NA	330 U	330 U	330 U	330 U	330 U
Phenol	950,000	9,600	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2,4,5-Trichlorophenol	6,700,000	17,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2,4,6-Trichlorophenol	67,000	87	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Acenaphthene	3,000,000	120,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Acenaphthylene	3,800,000	200,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Aniline	59,000	180	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Anthracene	18,000,000	3,400,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzidine	13	0.0055	NA	830 UJ	830 UJ	830 UJ	830 UJ	NA	830 UJ	820 UJ	830 UJ	830 UJ	830 UJ
Benzo(a)anthracene	5,600	8,900	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzo(a)pyrene	560	3,800	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzo(b)fluoranthene	5,700	30,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzo(g,h,i)perylene	1,800,000	23,000,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzo(k)fluoranthene	57,000	310,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Benzyl Alcohol	6,700,000	2,900	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
4-Bromophenyl phenyl ether	270	180	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Butyl benzyl phthalate	1,600,000	130,000	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Carbazole	230,000	2,300	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
4-Chloroaniline	23,000	10	NA	67 UJ	66 UJ	67 UJ	66 UJ	NA	66 UJ	66 UJ	66 UJ	66 UJ	66 UJ
bis(2-Chloroethoxy)methane	2,500	5.9	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
bis(2-Chloroethyl)ether	1,400	1.1	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
bis(2-Chloroisopropyl)ether	41,000	95	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2-Chloronaphthalene	5,000,000	330,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
4-Chlorophenyl phenyl ether	150	16	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Chrysene	560,000	770,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Dibenzo(a,h)anthracene	550	7,600	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Inq})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-TB-01	FEIDS-SS1-S0-01	FEIDS-SS2-S0-02	FEIDS-SS3-S0-03	FEIDS-SS4-S0-04	FEIDS-TB-02	FEIDS-SS5-SO-05	FEIDS-SS6-SO-06	FEIDS-SS7-SO-07	FEIDS-SS8-SO-08	FEIDS-SS9-SO-09
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	FA41730-1	FA41730-2	FA41730-3	FA41730-4	FA41730-5	FA41762-1	FA41762-2	FA41762-3	FA41762-4	FA41762-5	FA41762-6
Date			3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/3/17	3/3/17	3/3/17	3/3/17
Matrix			AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	Soil
<i>Semivolatiles (SVOCs) by Method SW846 8270D</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Dibenzofuran	270,000	17,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
1,2-Dichlorobenzene	390,000	8,900	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
1,3-Dichlorobenzene	62,000	3,400	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
1,4-Dichlorobenzene	250,000	1,100	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
3,3'-Dichlorobenzidine	10,000	31	NA	67 UJ	66 UJ	67 UJ	66 UJ	NA	66 UJ	66 UJ	66 UJ	66 UJ	66 UJ
Diethyl Phthalate	53,000,000	78,000	NA	120 U	120 U	120 U	120 U	NA	120 U	120 U	120 U	120 U	120 U
Dimethyl Phthalate	53,000,000	31,000	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Di-n-octyl Phthalate			NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Di-n-butyl Phthalate	6,200,000	1,700,000	NA	120 U	120 U	120 U	120 U	NA	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	6,900	2.7	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2,6-Dinitrotoluene	6,900	2.4	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
1,2-Diphenylhydrazine	5,400	16	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
bis(2-Ethylhexyl)phthalate	43,000	82,000	NA	120 U	120 U	120 U	120 U	NA	120 U	120 U	120 U	120 U	120 U
Fluoranthene	2,300,000	960,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Fluorene	2,300,000	150,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Hexachlorobenzene	1,000	560	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Hexachlorobutadiene	12,000	1,600	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Hexachlorocyclopentadiene	7,200	9,600	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Hexachloroethane	46,000	640	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Indeno(1,2,3-cd)pyrene	5,700	87,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Isophorone	4,900,000	1,500	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
1-Methylnaphthalene	150,000	1,500	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2-Methylnaphthalene	250,000	8,500	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Naphthalene	120,000	16,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
2-Nitroaniline	11,000	11	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
3-Nitroaniline	12,000	13	NA	67 UJ	66 UJ	67 UJ	66 UJ	NA	66 UJ	66 UJ	66 UJ	66 UJ	66 UJ
4-Nitroaniline	190,000	54	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Nitrobenzene	34,000	180	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
N-Nitrosodimethylamine	55	0.018	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
N-Nitrosodi-n-propylamine	400	0.18	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
N-Nitrosodiphenylamine	570,000	1,400	NA	67 U	66 U	67 U	66 U	NA	66 U	66 U	66 U	66 U	66 U
Phenanthrene	1,700,000	210,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Pyrene	1,700,000	560,000	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
Pyridine	82,000	35	NA	120 U	120 U	120 U	120 U	NA	120 U	120 U	120 U	120 U	120 U
1,2,4-Trichlorobenzene	70,000	2,400	NA	33 U	33 U	33 U	33 U	NA	33 U	33 U	33 U	33 U	33 U
<i>Pesticides by Method SW846 8081B</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Aldrin	50	51	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
alpha-BHC	250	4.0	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
beta-BHC	920	14	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
delta-BHC	2,900	87	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
gamma-BHC (Lindane)	1,100	4.6	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
alpha-Chlordane	13,000	370,000	NA	0.83 U	0.82 UJ	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
gamma-Chlordane	7,300	21,000	NA	0.83 U	0.82 UJ	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Dieldrin	150	24	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
4,4'-DDD	14,000	6,500	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
4,4'-DDE	10,000	5,900	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
4,4'-DDT	5,400	7,400	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	1.2J	0.83 U	0.83 U	0.83 U	0.83 U
Endrin	9,000	380	NA	1.7 U	1.6 U	1.7 U	1.7 U	NA	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Endosulfan sulfate	380,000	2,300,000	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Endrin aldehyde	19,000	310,000	NA	1.3J	1.0J	1.9J	1.6J	NA	1.9J	1.1J	2.0J	0.83 U	1.2J
Endrin ketone	19,000	25,000	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Endosulfan-I	91,000	15,000	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Endosulfan-II	270,000	46,000	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Heptachlor	130	94	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Heptachlor epoxide	240	29	NA	0.83 U	0.82 U	0.83 U	0.83 U	NA	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Methoxychlor	270,000	62,000	NA	1.7 U	1.6 U	1.7 U	1.7 U	NA	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Toxaphene	1,200	5,800	NA	41 U	41 U	42 U	41 U	NA	42 U	42 U	41 U	42 U	41 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Inq})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-TB-01	FEIDS-SS1-S0-01	FEIDS-SS2-S0-02	FEIDS-SS3-S0-03	FEIDS-SS4-S0-04	FEIDS-TB-02	FEIDS-SS5-SO-05	FEIDS-SS6-SO-06	FEIDS-SS7-SO-07	FEIDS-SS8-SO-08	FEIDS-SS9-SO-09
Lab Identification	Direct Contact (^{1st} Soil _{comb})	protection of groundwater (^{GW} Soil _{leg})	FA41730-1	FA41730-2	FA41730-3	FA41730-4	FA41730-5	FA41762-1	FA41762-2	FA41762-3	FA41762-4	FA41762-5	FA41762-6
Date			3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/3/17	3/3/17	3/3/17	3/3/17
Matrix			AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	Soil
<i>Herbicides by Method SW846 8151A</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
2,4-D	730,000	1,300	NA	16 UJ	1.6 UJ	16 UJ	17 UJ	NA	16 UJ	16 UJ	16 UJ	16 UJ	17 UJ
2,4,5-TP (Silvex)	530,000	2,600	NA	1.6 UJ	41 UJ	1.6 UJ	1.7 UJ	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ
2,4,5-T	670,000	490	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ
Dicamba	2,000,000	730	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ
Dinoseb	37,000	8.8	NA	32 UJ	32 UJ	33 UJ	33 UJ	NA	33 UJ	32 UJ	33 UJ	33 UJ	33 UJ
Dalapon	2,000,000	290	NA	65 UJ	65 UJ	65 UJ	67 UJ	NA	65 UJ	65 UJ	66 UJ	65 UJ	67 UJ
Dichloroprop	670,000	230	NA	16 UJ	16 UJ	16 UJ	17 UJ	NA	16 UJ	16 UJ	16 UJ	16 UJ	17 UJ
2,4-DB	530,000	190	NA	16 UJ	16 UJ	16 UJ	17 UJ	NA	16 UJ	16 UJ	16 UJ	16 UJ	17 UJ
MCPP	67,000	23	NA	1600 UJ	1600 UJ	1600 UJ	1700 UJ	NA	1600 UJ	1600 UJ	1600 UJ	1600 UJ	1700 UJ
MCPA	33,000	12	NA	2400 UJ	2400 UJ	2500 UJ	2500 UJ	NA	2500 UJ	2400 UJ	2500 UJ	2500 UJ	2500 UJ
Pentachlorophenol	730	9.2	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ	NA	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.7 UJ
<i>PCB by Method SW846 8082A</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Aroclor 1016	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U
Aroclor 1221	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U
Aroclor 1232	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U
Aroclor 1242	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U
Aroclor 1248	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U
Aroclor 1254	N/A	N/A	NA	12 UJ	12 UJ	12 UJ	12 UJ	NA	12 UJ	12 UJ	12 UJ	12 UJ	12 UJ
Aroclor 1260	N/A	N/A	NA	12 U	12 U	12 U	12 U	NA	12 U	12 U	12 U	12 U	12 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{comb}) and protection of groundwater (GWSoil_{leg})

ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SS10-SO-10	FEIDS-SB1-SO-11	FEIDS-SB2-SO-12	FEIDS-TB-03	FEIDS-SB3-SO-13	FEIDS-SB4-SO-14	FEIDS-SB5-SO-15	FEIDS-SB6-SO-16	FEIDS-SB7-SO-17	FEIDS-SB8-SO-18	FEIDS-SB9-SO-19
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	FA41762-7	FA41762-8	FA41762-9	FA41805-1	FA41805-2	FA41805-3	FA41805-4	FA41805-5	FA41805-6	FA41805-7	FA41805-8
Date			3/3/17	3/3/17	3/3/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil
<i>TX1005</i>	<i>Project Action Levels (PALs)</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>		<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>
Laboratory Identification			21703071906	21703071907	21703071908		21703102401	21703102402	21703102403	21703102404	21703102405	21703102406	21703102407
>C12-C28	2,000	99	32.9U	32.9U	34.2U	NA	33.2U	33.2U	32.6U	33.6U	34.5U	32.9U	32.9U
>C28-C35	2,000	99	32.9U	32.9U	34.2U	NA	33.2U	33.2U	32.6U	33.6U	34.5U	32.9U	32.9U
C6-C12	1,100	33	14.4U	14.4U	15.0U	NA	14.5U	14.5U	14.3U	14.7U	15.1U	14.4U	14.4U
TOTAL TPH (C6-C35)			32.9U	32.9U	34.2U	NA	33.2U	33.2U	32.6U	33.6U	34.5U	32.9U	32.9U
<i>Volatiles (VOCs) by Method SW846 8260B</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/L</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Acetone	59,000,000	21,000	19 UJ	23 UJ	25 UJ	20 U	18 UJ	20 UJ	20 UJ	18 UJ	20 UJ	18 UJ	19 UJ
Benzene	69,000	13	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Bromobenzene	280,000	1,200	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Bromochloromethane	3,300,000	1,500	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Bromodichloromethane	98,000	33	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Bromoform	280,000	320	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
2-Butanone (MEK)	33,000,000	15,000	14 UJ	14 UJ	15 UJ	3.5 U	11 UJ	12 UJ	12 UJ	11 UJ	12 UJ	11 UJ	11 UJ
n-Butylbenzene	3,300,000	76,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
sec-Butylbenzene	3,300,000	42,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
tert-Butylbenzene	3,300,000	50,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Carbon Disulfide	3,300,000	6,800	1.6 UJ	1.8 UJ	2.0 UJ	1.0 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Carbon Tetrachloride	23,000	31	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Chlorobenzene	320,000	550	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Chloroethane	23,000,000	15,000	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
Chloroform	8,000	510	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
o-Chlorotoluene	1,100,000	4,500	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
p-Chlorotoluene	1,600,000	5,400	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Dibromochloromethane	72,000	25	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,2-Dibromo-3-chloropropane	80	0.87	2.7 UJ	3.2 UJ	3.5 UJ	2.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,2-Dibromoethane	430	0.10	1.6 UJ	1.8 UJ	2.0 UJ	1.0 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Dichlorodifluoromethane	750,000	120,000	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,2-Dichlorobenzene	390,000	8,900	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,3-Dichlorobenzene	62,000	3,400	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,4-Dichlorobenzene	250,000	1,100	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1-Dichloroethane	8,800,000	9,200	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,2-Dichloroethane	6,400	6.9	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1-Dichloroethylene	1,600,000	25	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
cis-1,2-Dichloroethylene	120,000	120	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
trans-1,2-Dichloroethylene	370,000	250	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,2-Dichloropropane	31,000	11	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,3-Dichloropropane	26,000	32	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
2,2-Dichloropropane	31,000	60	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1-Dichloropropene	26,000	67	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
cis-1,3-Dichloropropene	7,800	3.3	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
trans-1,3-Dichloropropene	26,000	18	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Ethylbenzene	5,300,000	3,800	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Hexachlorobutadiene	12,000	1,600	1.6 UJ	1.8 UJ	2.0 UJ	1.0 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
2-Hexanone	210,000	160	12 UJ	14 UJ	15 UJ	5.0 U	11 UJ	12 UJ	12 UJ	11 UJ	12 UJ	11 UJ	11 UJ
Isopropylbenzene	3,000,000	170,000	1.6 UJ	0.95J	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
p-Isopropyltoluene	8,200,000	120,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Methyl Bromide	29,000	65	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
Methyl Chloride	84,000	200	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
Methylene Bromide	42,000	560	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Methylene Chloride	1,500,000	6.5	3.9 UJ	4.5 UJ	4.9 UJ	4.0 U	3.7 UJ	4.0 UJ	3.9 UJ	3.6 UJ	4.0 UJ	3.6 UJ	3.7 UJ
4-Methyl-2-pentanone (MIBK)	5,400,000	2,500	12 UJ	14 UJ	15 UJ	2.0 U	11 UJ	12 UJ	12 UJ	11 UJ	12 UJ	11 UJ	11 UJ
Methyl Tert Butyl Ether	590,000	310	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Naphthalene	120,000	16,000	2.7 UJ	3.2 UJ	3.5 UJ	2.7 UJ	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
n-Propylbenzene	1,600,000	22,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 UJ	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Inq})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SS10-SO-10	FEIDS-SB1-SO-11	FEIDS-SB2-SO-12	FEIDS-TB-03	FEIDS-SB3-SO-13	FEIDS-SB4-SO-14	FEIDS-SB5-SO-15	FEIDS-SB6-SO-16	FEIDS-SB7-SO-17	FEIDS-SB8-SO-18	FEIDS-SB9-SO-19
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	FA41762-7	FA41762-8	FA41762-9	FA41805-1	FA41805-2	FA41805-3	FA41805-4	FA41805-5	FA41805-6	FA41805-7	FA41805-8
Date			3/3/17	3/3/17	3/3/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil
Volatiles (VOCs) by Method SW846 8260B	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Styrene	4,300,000	1,600	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1,1,2-Tetrachloroethane	39,000	710	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1,2,2-Tetrachloroethane	30,000	12	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Tetrachloroethylene	420,000	25	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Toluene	5,400,000	4,100	1.6 UJ	1.8 UJ	2.0 UJ	0.57J	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,2,3-Trichlorobenzene	87,000	13,000	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,2,4-Trichlorobenzene	70,000	2,400	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,1,1-Trichloroethane	32,000,000	810	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,1,2-Trichloroethane	10,000	10	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Trichloroethylene	11,000	17	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Trichlorofluoromethane	25,000,000	64,000	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,2,3-Trichloropropane	200	0.27	2.7 UJ	3.2 UJ	3.5 UJ	1.0 U	2.6 UJ	2.8 UJ	2.7 UJ	2.5 UJ	2.8 UJ	2.5 UJ	2.6 UJ
1,2,4-Trimethylbenzene	79,000	24,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
1,3,5-Trimethylbenzene	59,000	27,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Vinyl Acetate	1,500,000	27,000	16 UJ	18 UJ	20 UJ	5.0 U	15 UJ	16 UJ	16 UJ	14 UJ	16 UJ	14 UJ	15 UJ
Vinyl Chloride	3,400	11	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
m,p-Xylene	4,700,000	53,000	3.1 UJ	3.6 UJ	3.9 UJ	1.0 U	3.0 UJ	3.2 UJ	3.1 UJ	2.9 UJ	3.2 UJ	2.9 UJ	3.0 UJ
o-Xylene	29,000,000	35,000	1.6 UJ	1.8 UJ	2.0 UJ	0.50 U	1.5 UJ	1.6 UJ	1.6 UJ	1.4 UJ	1.6 UJ	1.4 UJ	1.5 UJ
Semivolatiles (SVOCs) by Method SW846 8270D	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Benzoic Acid	270,000,000	95,000	330 U	330 U	330 U	NA	350 U	350 U	350 U	350 U	350 U	350 U	340 U
4-Chloro-3-methyl Phenol	330,000	2,300	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2-Chlorophenol	410,000	820	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2,4-Dichlorophenol	200,000	180	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2,4-Dimethylphenol	1,300,000	1,600	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
2,4-Dinitrophenol	130,000	47	500 U	490 U	500 U	NA	520 U	520 U	530 U	530 U	530 U	520 U	500 U
4,6-Dinitro-o-cresol	6,700	2.3	130 U	130 U	130 U	NA	140 U	140 U	140 U	140 U	140 U	140 U	130 U
2-Methylphenol	3,300,000	3,600	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
3&4-Methylphenol	330,000	320	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
2-Nitrophenol	130,000	67	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
4-Nitrophenol	130,000	50	330 U	330 U	330 U	NA	350 U	350 U	350 U	350 U	350 U	350 U	340 U
Pentachlorophenol	730	9.2	330 U	330 U	330 U	NA	350 U	350 U	350 U	350 U	350 U	350 U	340 U
Phenol	950,000	9,600	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2,4,5-Trichlorophenol	6,700,000	17,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2,4,6-Trichlorophenol	67,000	87	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Acenaphthene	3,000,000	120,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Acenaphthylene	3,800,000	200,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Aniline	59,000	180	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Anthracene	18,000,000	3,400,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzdine	13	0.0055	830 UJ	820 UJ	830 UJ	NA	870 U	870 U	880 U	880 U	880 U	870 U	840 U
Benzo(a)anthracene	5,600	8,900	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzo(a)pyrene	560	3,800	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzo(b)fluoranthene	5,700	30,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzo(g,h,i)perylene	1,800,000	23,000,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzo(k)fluoranthene	57,000	310,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Benzyl Alcohol	6,700,000	2,900	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
4-Bromophenyl phenyl ether	270	180	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Butyl benzyl phthalate	1,600,000	130,000	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Carbazole	230,000	2,300	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
4-Chloroaniline	23,000	10	66 UJ	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
bis(2-Chloroethoxy)methane	2,500	5.9	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
bis(2-Chloroethyl)ether	1,400	1.1	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
bis(2-Chloroisopropyl)ether	41,000	95	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2-Chloronaphthalene	5,000,000	330,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
4-Chlorophenyl phenyl ether	150	16	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Chrysene	560,000	770,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Dibenzo(a,h)anthracene	550	7,600	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Inq})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SS10-SO-10	FEIDS-SB1-SO-11	FEIDS-SB2-SO-12	FEIDS-TB-03	FEIDS-SB3-SO-13	FEIDS-SB4-SO-14	FEIDS-SB5-SO-15	FEIDS-SB6-SO-16	FEIDS-SB7-SO-17	FEIDS-SB8-SO-18	FEIDS-SB9-SO-19
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	FA41762-7	FA41762-8	FA41762-9	FA41805-1	FA41805-2	FA41805-3	FA41805-4	FA41805-5	FA41805-6	FA41805-7	FA41805-8
Date			3/3/17	3/3/17	3/3/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil
<i>Semivolatiles (SVOCs) by Method SW846 8270D</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Dibenzofuran	270,000	17,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
1,2-Dichlorobenzene	390,000	8,900	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
1,3-Dichlorobenzene	62,000	3,400	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
1,4-Dichlorobenzene	250,000	1,100	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
3,3'-Dichlorobenzidine	10,000	31	66 UJ	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Diethyl Phthalate	53,000,000	78,000	120 U	110 U	120 U	NA	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dimethyl Phthalate	53,000,000	31,000	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Di-n-octyl Phthalate			66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Di-n-butyl Phthalate	6,200,000	1,700,000	120 U	110 U	120 U	NA	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	6,900	2.7	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2,6-Dinitrotoluene	6,900	2.4	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
1,2-Diphenylhydrazine	5,400	16	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
bis(2-Ethylhexyl)phthalate	43,000	82,000	120 U	110 U	120 U	NA	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Fluoranthene	2,300,000	960,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Fluorene	2,300,000	150,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Hexachlorobenzene	1,000	560	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Hexachlorobutadiene	12,000	1,600	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Hexachlorocyclopentadiene	7,200	9,600	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Hexachloroethane	46,000	640	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Indeno(1,2,3-cd)pyrene	5,700	87,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Isophorone	4,900,000	1,500	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
1-Methylnaphthalene	150,000	1,500	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2-Methylnaphthalene	250,000	8,500	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Naphthalene	120,000	16,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
2-Nitroaniline	11,000	11	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
3-Nitroaniline	12,000	13	66 UJ	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
4-Nitroaniline	190,000	54	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Nitrobenzene	34,000	180	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
N-Nitrosodimethylamine	55	0.018	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
N-Nitrosodi-n-propylamine	400	0.18	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
N-Nitrosodiphenylamine	570,000	1,400	66 U	66 U	66 U	NA	69 U	70 U	71 U	71 U	71 U	69 U	67 U
Phenanthrene	1,700,000	210,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Pyrene	1,700,000	560,000	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
Pyridine	82,000	35	120 U	110 UJ	120 UJ	NA	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
1,2,4-Trichlorobenzene	70,000	2,400	33 U	33 U	33 U	NA	35 U	35 U	35 U	35 U	35 U	35 U	34 U
<i>Pesticides by Method SW846 8081B</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Aldrin	50	51	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 U	0.88 U	0.89 U	0.91 U	0.88 U	0.88 U
alpha-BHC	250	4.0	0.83 U	0.83 U	0.85 U	NA	0.86 U	0.89 U	0.88 U	0.89 U	0.91 U	0.88 U	0.88 U
beta-BHC	920	14	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
delta-BHC	2,900	87	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
gamma-BHC (Lindane)	1,100	4.6	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 U	0.88 U	0.89 U	0.91 U	0.88 U	0.88 U
alpha-Chlordane	13,000	370,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
gamma-Chlordane	7,300	21,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Dieldrin	150	24	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
4,4'-DDD	14,000	6,500	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
4,4'-DDE	10,000	5,900	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
4,4'-DDT	5,400	7,400	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Endrin	9,000	380	1.7 U	1.7 U	1.7 U	NA	1.7 U	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.8 UJ
Endosulfan sulfate	380,000	2,300,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Endrin aldehyde	19,000	310,000	1.1J	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Endrin ketone	19,000	25,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Endosulfan-I	91,000	15,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 U	0.88 U	0.89 U	0.91 U	0.88 U	0.88 U
Endosulfan-II	270,000	46,000	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Heptachlor	130	94	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 U	0.88 U	0.89 U	0.91 U	0.88 U	0.88 U
Heptachlor epoxide	240	29	0.83 U	0.84 U	0.85 U	NA	0.86 U	0.89 UJ	0.88 UJ	0.89 UJ	0.91 UJ	0.88 UJ	0.88 UJ
Methoxychlor	270,000	62,000	1.7 U	1.7 UJ	1.7 UJ	NA	1.7 UJ	1.8 UJ	1.8 UJ	1.8 UJ	1.1J	1.8 UJ	1.8 UJ
Toxaphene	1,200	5,800	42 U	42 U	43 U	NA	43 U	44 U	44 U	44 U	46 U	44 U	44 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Inq})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SS10-SO-10	FEIDS-SB1-SO-11	FEIDS-SB2-SO-12	FEIDS-TB-03	FEIDS-SB3-SO-13	FEIDS-SB4-SO-14	FEIDS-SB5-SO-15	FEIDS-SB6-SO-16	FEIDS-SB7-SO-17	FEIDS-SB8-SO-18	FEIDS-SB9-SO-19
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	FA41762-7	FA41762-8	FA41762-9	FA41805-1	FA41805-2	FA41805-3	FA41805-4	FA41805-5	FA41805-6	FA41805-7	FA41805-8
Date			3/3/17	3/3/17	3/3/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil
<i>Herbicides by Method SW846 8151A</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
2,4-D	730,000	1,300	17 UJ	17 UJ	16 UJ	NA	17 UJ	18 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ
2,4,5-TP (Silvex)	530,000	2,600	1.7 UJ	1.7 UJ	1.6 UJ	NA	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ
2,4,5-T	670,000	490	1.7 UJ	1.7 UJ	1.6 UJ	NA	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ
Dicamba	2,000,000	730	1.7 UJ	1.7 UJ	1.6 UJ	NA	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ
Dinoseb	37,000	8.8	33 UJ	33 UJ	33 UJ	NA	34 UJ	35 UJ	35 UJ	34 UJ	36 UJ	34 UJ	34 UJ
Dalapon	2,000,000	290	67 UJ	67 UJ	65 UJ	NA	69 UJ	70 UJ	70 UJ	69 UJ	71 UJ	68 UJ	68 UJ
Dichloroprop	670,000	230	17 UJ	17 UJ	16 UJ	NA	17 UJ	18 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ
2,4-DB	530,000	190	17 UJ	17 UJ	16 UJ	NA	17 UJ	18 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ
MCPP	67,000	23	1700 UJ	1700 UJ	1600 UJ	NA	1700 UJ	1800 UJ	1800 UJ	1700 UJ	1800 UJ	1700 UJ	1700 UJ
MCPA	33,000	12	2500 UJ	2500 UJ	2500 UJ	NA	2600 UJ	2600 UJ	2600 UJ	2600 UJ	2700 UJ	2600 UJ	2600 UJ
Pentachlorophenol	730	9.2	1.7 UJ	1.7 UJ	1.6 UJ	NA	1.7 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ
<i>PCB by Method SW846 8082A</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>		<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Aroclor 1016	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1221	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1232	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1242	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1248	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1254	N/A	N/A	12 UJ	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U
Aroclor 1260	N/A	N/A	12 U	12 U	12 U	NA	13 U	12 U	12 U	12 U	13 U	12 U	12 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Inq})
ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SB10-SO-20	FEIDS-SB11-SO-21	FEIDS-SS11-SO-22	FEIDS-SS12-SO-23	FEIDS-SS13-SO-23	FEIDS-SS14-SO-24	FEIDS-SB12-SO-25J	FEIDS-SS15-SO-26	FEIDS-SB13-SO-27	FEIDS-SS16-SO-28	FEIDS-SB14-SO-29
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	FA41805-9	FA41805-10	FA41805-11	FA41805-12	FA41805-13	FA41805-14	FA41805-15	FA41805-16	FA41805-17	FA41805-18	FA41805-19
Date			3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<i>TX1005</i>	<i>Project Action Levels (PALs)</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>	<i>mg/Kg</i>
Laboratory Identification			21703102408	21703102409	21703102410	21703102411	21703102412	21703102415	21703102416	21703102417	21703102418	21703102419	21703102420
>C12-C28	2,000	99	36.5U	34.0U	31.7U	39.5U	38.8U	32.4U	36.5U	31.7U	34.4U	31.4U	32.3U
>C28-C35	2,000	99	36.5U	34.0U	31.7U	39.5U	38.8U	32.4U	36.5U	31.7U	34.4U	31.4U	32.3U
C6-C12	1,100	33	16.0U	14.9U	13.9U	17.3U	17.0U	14.2U	16.0U	13.9U	15.0U	13.7U	14.1U
TOTAL TPH (C6-C35)			36.5U	34.0U	31.7U	39.5U	38.8U	32.4U	36.5U	31.7U	34.4U	31.4U	32.3U
<i>Volatiles (VOCs) by Method SW846.8260B</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Acetone	59,000,000	21,000	18 UJ	22 UJ	17 UJ	17 UJ	19 UJ	18 UJ	21 UJ	18 UJ	21 UJ	18 UJ	16 UJ
Benzene	69,000	13	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Bromobenzene	280,000	1,200	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Bromochloromethane	3,300,000	1,500	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Bromodichloromethane	98,000	33	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Bromoform	280,000	320	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
2-Butanone (MEK)	33,000,000	15,000	11 UJ	11 UJ	10 UJ	11 UJ	11 UJ	13 UJ	11 UJ	11 UJ	13 UJ	11 UJ	9.8 UJ
n-Butylbenzene	3,300,000	76,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
sec-Butylbenzene	3,300,000	42,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
tert-Butylbenzene	3,300,000	50,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Carbon Disulfide	3,300,000	6,800	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Carbon Tetrachloride	23,000	31	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Chlorobenzene	320,000	550	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Chloroethane	23,000,000	15,000	2.5 UJ	2.5 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	2.3 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
Chloroform	8,000	510	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
o-Chlorotoluene	1,100,000	4,500	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
p-Chlorotoluene	1,600,000	5,400	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Dibromochloromethane	72,000	25	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,2-Dibromo-3-chloropropane	80	0.87	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,2-Dibromoethane	430	0.10	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Dichlorodifluoromethane	750,000	120,000	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,2-Dichlorobenzene	390,000	8,900	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,3-Dichlorobenzene	62,000	3,400	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,4-Dichlorobenzene	250,000	1,100	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1-Dichloroethane	8,800,000	9,200	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,2-Dichloroethane	6,400	6.9	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1-Dichloroethylene	1,600,000	25	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
cis-1,2-Dichloroethylene	120,000	120	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
trans-1,2-Dichloroethylene	370,000	250	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,2-Dichloropropane	31,000	11	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,3-Dichloropropane	26,000	32	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
2,2-Dichloropropane	31,000	60	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1-Dichloropropene	26,000	67	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
cis-1,3-Dichloropropene	7,800	3.3	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
trans-1,3-Dichloropropene	26,000	18	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Ethylbenzene	5,300,000	3,800	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Hexachlorobutadiene	12,000	1,600	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
2-Hexanone	210,000	160	11 UJ	13 UJ	10 UJ	10 UJ	11 UJ	11 UJ	13 UJ	11 UJ	13 UJ	11 UJ	9.8 UJ
Isopropylbenzene	3,000,000	170,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
p-Isopropyltoluene	8,200,000	120,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Methyl Bromide	29,000	65	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
Methyl Chloride	84,000	200	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
Methylene Bromide	42,000	560	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Methylene Chloride	1,500,000	6.5	3.6 UJ	4.4 UJ	3.5 UJ	3.4 UJ	3.7 UJ	3.6 UJ	4.2 UJ	3.6 UJ	4.2 UJ	3.6 UJ	3.3 UJ
4-Methyl-2-pentanone (MIBK)	5,400,000	2,500	11 UJ	13 UJ	10 UJ	10 UJ	11 UJ	11 UJ	13 UJ	11 UJ	13 UJ	11 UJ	9.8 UJ
Methyl Tert Butyl Ether	590,000	310	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Naphthalene	120,000	16,000	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
n-Propylbenzene	1,600,000	22,000	1.4 UJ	1.7 UJ	1.7UJ	1.4 UJ	1.5 UJ	1.5 UJ	11.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Inq})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SB10-SO-20	FEIDS-SB11-SO-21	FEIDS-SS11-SO-22	FEIDS-SS12-SO-23	FEIDS-SS13-SO-23	FEIDS-SS14-SO-24	FEIDS-SB12-SO-25	FEIDS-SS15-SO-26	FEIDS-SB13-SO-27	FEIDS-SS16-SO-28	FEIDS-SB14-SO-29
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	FA41805-9	FA41805-10	FA41805-11	FA41805-12	FA41805-13	FA41805-14	FA41805-15	FA41805-16	FA41805-17	FA41805-18	FA41805-19
Date			3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Volatiles (VOCs) by Method SW846 8260B	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Styrene	4,300,000	1,600	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1,1,2-Tetrachloroethane	39,000	710	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1,2,2-Tetrachloroethane	30,000	12	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Tetrachloroethylene	420,000	25	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Toluene	5,400,000	4,100	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,2,3-Trichlorobenzene	87,000	13,000	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,2,4-Trichlorobenzene	70,000	2,400	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,1,1,1-Trichloroethane	32,000,000	810	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,1,2-Trichloroethane	10,000	10	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Trichloroethylene	11,000	17	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Trichlorofluoromethane	25,000,000	64,000	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,2,3-Trichloropropane	200	0.27	2.5 UJ	3.0 UJ	2.4 UJ	2.4 UJ	2.6 UJ	2.6 UJ	3.0 UJ	2.5 UJ	2.9 UJ	2.5 UJ	2.3 UJ
1,2,4-Trimethylbenzene	79,000	24,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
1,3,5-Trimethylbenzene	59,000	27,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Vinyl Acetate	1,500,000	27,000	14 UJ	17 UJ	14 UJ	14 UJ	15 UJ	15 UJ	17 UJ	14 UJ	17 UJ	14 UJ	13 UJ
Vinyl Chloride	3,400	11	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
m,p-Xylene	4,700,000	53,000	2.9 UJ	3.5 UJ	2.8 UJ	2.7 UJ	3.0 UJ	2.9 UJ	1.4UJ	2.9 UJ	3.4 UJ	2.9 UJ	2.6 UJ
o-Xylene	29,000,000	35,000	1.4 UJ	1.7 UJ	1.4 UJ	1.4 UJ	1.5 UJ	1.5 UJ	1.7 UJ	1.4 UJ	1.7 UJ	1.4 UJ	1.3 UJ
Semivolatiles (SVOCs) by Method SW846 8270D	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Benzoic Acid	270,000,000	95,000	380 U	360 U	340 U	360 U	350 U	350 UJ	350 U	330 U	360 U	340 U	340 U
4-Chloro-3-methyl Phenol	330,000	2,300	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2-Chlorophenol	410,000	820	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2,4-Dichlorophenol	200,000	180	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2,4-Dimethylphenol	1,300,000	1,600	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
2,4-Dinitrophenol	130,000	47	560 U	550 U	510 U	540 U	520 U	530 U	520 U	500 U	540 U	500 U	510 U
4,6-Dinitro-o-cresol	6,700	2.3	150 U	150 U	140 U	150 U	140 U	140 U	140 U	130 U	140 U	130 U	140 U
2-Methylphenol	3,300,000	3,600	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
3&4-Methylphenol	330,000	320	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
2-Nitrophenol	130,000	67	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
4-Nitrophenol	130,000	50	380 U	360 U	340 U	360 U	350 U	350 U	350 U	330 U	360 U	340 U	340 U
Pentachlorophenol	730	9.2	380 U	360 U	340 U	360 U	350 U	350 U	350 U	330 U	360 U	340 U	340 U
Phenol	950,000	9,600	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2,4,5-Trichlorophenol	6,700,000	17,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2,4,6-Trichlorophenol	67,000	87	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Acenaphthene	3,000,000	120,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Acenaphthylene	3,800,000	200,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Aniline	59,000	180	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Anthracene	18,000,000	3,400,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzidine	13	0.0055	940 U	910 U	860 U	910 U	870 U	880 UJ	870 U	840 U	890 U	840 U	860 UJ
Benzo(a)anthracene	5,600	8,900	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzo(a)pyrene	560	3,800	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzo(b)fluoranthene	5,700	30,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzo(g,h,i)perylene	1,800,000	23,000,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzo(k)fluoranthene	57,000	310,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Benzyl Alcohol	6,700,000	2,900	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
4-Bromophenyl phenyl ether	270	180	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Butyl benzyl phthalate	1,600,000	130,000	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Carbazole	230,000	2,300	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
4-Chloroaniline	23,000	10	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 UJ
bis(2-Chloroethoxy)methane	2,500	5.9	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
bis(2-Chloroethyl)ether	1,400	1.1	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
bis(2-Chloroisopropyl)ether	41,000	95	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2-Chloronaphthalene	5,000,000	330,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
4-Chlorophenyl phenyl ether	150	16	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Chrysene	560,000	770,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Dibenzo(a,h)anthracene	550	7,600	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Inq})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SB10-SO-20	FEIDS-SB11-SO-21	FEIDS-SS11-SO-22	FEIDS-SS12-SO-23	FEIDS-SS13-SO-23	FEIDS-SS14-SO-24	FEIDS-SB12-SO-25	FEIDS-SS15-SO-26	FEIDS-SB13-SO-27	FEIDS-SS16-SO-28	FEIDS-SB14-SO-29
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	FA41805-9	FA41805-10	FA41805-11	FA41805-12	FA41805-13	FA41805-14	FA41805-15	FA41805-16	FA41805-17	FA41805-18	FA41805-19
Date			3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<i>Semivolatiles (SVOCs) by Method SW846 8270D</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Dibenzofuran	270,000	17,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
1,2-Dichlorobenzene	390,000	8,900	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
1,3-Dichlorobenzene	62,000	3,400	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
1,4-Dichlorobenzene	250,000	1,100	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
3,3'-Dichlorobenzidine	10,000	31	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 UJ
Diethyl Phthalate	53,000,000	78,000	130 U	130 U	120 U	130 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dimethyl Phthalate	53,000,000	31,000	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Di-n-octyl Phthalate			75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Di-n-butyl Phthalate	6,200,000	1,700,000	130 U	130 U	120 U	130 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
2,4-Dinitrotoluene	6,900	2.7	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2,6-Dinitrotoluene	6,900	2.4	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
1,2-Diphenylhydrazine	5,400	16	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
bis(2-Ethylhexyl)phthalate	43,000	82,000	130 U	130 U	120 U	130 U	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Fluoranthene	2,300,000	960,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Fluorene	2,300,000	150,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Hexachlorobenzene	1,000	560	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Hexachlorobutadiene	12,000	1,600	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Hexachlorocyclopentadiene	7,200	9,600	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Hexachloroethane	46,000	640	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Indeno(1,2,3-cd)pyrene	5,700	87,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Isophorone	4,900,000	1,500	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
1-Methylnaphthalene	150,000	1,500	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2-Methylnaphthalene	250,000	8,500	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Naphthalene	120,000	16,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
2-Nitroaniline	11,000	11	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
3-Nitroaniline	12,000	13	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 UJ
4-Nitroaniline	190,000	54	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Nitrobenzene	34,000	180	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
N-Nitrosodimethylamine	55	0.018	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
N-Nitrosodi-n-propylamine	400	0.18	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
N-Nitrosodiphenylamine	570,000	1,400	75 U	73 U	69 U	73 U	70 U	70 U	69 U	67 U	71 U	67 U	68 U
Phenanthrene	1,700,000	210,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Pyrene	1,700,000	560,000	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
Pyridine	82,000	35	130 UJ	130 UJ	120 UJ	130 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 U
1,2,4-Trichlorobenzene	70,000	2,400	38 U	36 U	34 U	36 U	35 U	35 U	35 U	33 U	36 U	34 U	34 U
<i>Pesticides by Method SW846 8081B</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Aldrin	50	51	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
alpha-BHC	250	4.0	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
beta-BHC	920	14	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
delta-BHC	2,900	87	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
gamma-BHC (Lindane)	1,100	4.6	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 UJ	0.84 U	0.88 U	0.82 U	0.86 U
alpha-Chlordane	13,000	370,000	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
gamma-Chlordane	7,300	21,000	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Dieldrin	150	24	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
4,4'-DDD	14,000	6,500	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
4,4'-DDE	10,000	5,900	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
4,4'-DDT	5,400	7,400	0.93 U	0.91 U	0.75J	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Endrin	9,000	380	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.6 U	1.7 U
Endosulfan sulfate	380,000	2,300,000	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Endrin aldehyde	19,000	310,000	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Endrin ketone	19,000	25,000	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Endosulfan-I	91,000	15,000	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Endosulfan-II	270,000	46,000	0.93 UJ	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Heptachlor	130	94	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Heptachlor epoxide	240	29	0.93 U	0.91 U	0.85 U	0.90 U	0.87 U	0.86 U	0.88 U	0.84 U	0.88 U	0.82 U	0.86 U
Methoxychlor	270,000	62,000	1.9 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.6 U	1.7 U
Toxaphene	1,200	5,800	46 U	45 U	43 U	45 U	J43 U	43 U	44 U	42 U	44 U	41 U	43 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Inq})

mg/Kg - miligrams per kilogram ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)		FEIDS-SB10-SO-20	FEIDS-SB11-SO-21	FEIDS-SS11-SO-22	FEIDS-SS12-SO-23	FEIDS-SS13-SO-23	FEIDS-SS14-SO-24	FEIDS-SB12-SO-25	FEIDS-SS15-SO-26	FEIDS-SB13-SO-27	FEIDS-SS16-SO-28	FEIDS-SB14-SO-29
Lab Identification	Direct Contact (^{1st} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Inq})	FA41805-9	FA41805-10	FA41805-11	FA41805-12	FA41805-13	FA41805-14	FA41805-15	FA41805-16	FA41805-17	FA41805-18	FA41805-19
Date			3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix			Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil
<i>Herbicides by Method SW846 8151A</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
2,4-D	730,000	1,300	19 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ	17 UJ	17 UJ	18 UJ	16 UJ	17 UJ
2,4,5-TP (Silvex)	530,000	2,600	1.9 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.8 UJ	1.6 UJ	1.7 UJ
2,4,5-T	670,000	490	1.9 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.8 UJ	1.6 UJ	1.7 UJ
Dicamba	2,000,000	730	1.9 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.8 UJ	1.6 UJ	1.7 UJ
Dinoseb	37,000	8.8	38 UJ	36 UJ	34 UJ	36 UJ	35 UJ	35 UJ	34 UJ	33 UJ	35 UJ	33 UJ	34 UJ
Dalapon	2,000,000	290	75 UJ	72 UJ	68 UJ	71 UJ	70 UJ	70 UJ	69 UJ	67 UJ	70 UJ	65 UJ	68 UJ
Dichloroprop	670,000	230	19 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ	17 UJ	17 UJ	18 UJ	16 UJ	17 UJ
2,4-DB	530,000	190	19 UJ	18 UJ	17 UJ	18 UJ	17 UJ	17 UJ	17 UJ	17 UJ	18 UJ	16 UJ	17 UJ
MCPPP	67,000	23	1900 UJ	1800 UJ	1700 UJ	1800 UJ	1700 UJ	1700 UJ	1700 UJ	1700 UJ	1800 UJ	1600 UJ	1700 UJ
MCPA	33,000	12	2800 UJ	2700 UJ	2600 UJ	2700 UJ	2600 UJ	2600 UJ	2600 UJ	2500 UJ	2600 UJ	2500 UJ	2500 UJ
Pentachlorophenol	730	9.2	1.9 UJ	1.8 UJ	1.7 UJ	1.8 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.8 UJ	1.6 UJ	1.7 UJ
<i>PCB by Method SW846 8082A</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>	<i>ug/Kg</i>
Aroclor 1016	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1221	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1232	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1242	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1248	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1254	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Aroclor 1260	N/A	N/A	13 U	13 U	12 U	13 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U

Notes:

PALs are the most conservative value between TCEQ Texas Risk Reduction Program (TRRP), Tier 1 Protective Concentration Levels (PCLs) for residential soil, 30 acre source area for direct contact (TotSoil_{Comb}) and protection of groundwater (GWSoil_{Inq})
ug/Kg -micrograms per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)			FEIDS-TB-01	FEIDS-SS1-S0-01	FEIDS-SS2-S0-02	FEIDS-SS3-S0-03	FEIDS-SS4-S0-04	FEIDS-TB-02	FEIDS-SS5-SO-05	FEIDS-SS6-SO-06	FEIDS-SS7-SO-07	FEIDS-SS8-SO-08	FEIDS-SS9-SO-09	
Lab Identification	Human Health Screening Values (mg/kg)		Ecological Screening Values	FA41730-1	FA41730-2	FA41730-3	FA41730-4	FA41730-5	FA41762-1	FA41762-2	FA41762-3	FA41762-4	FA41762-5	FA41762-6	
Date	Direct Contact (^{Tot} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Ing})		3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/2/17	3/3/17	3/3/17	3/3/17	3/3/17
Matrix				AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals by Method SW846 6020A	mg/Kg	mg/Kg			mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Aluminum	64,000	86,000	N/A	NA	4930J	5,850	5,810	5,480	NA	4,670	5,970	5,250	4,740	4,430	
Antimony	15	2.7	78	NA	0.091 J	0.085 J	0.17 J	0.11 J	NA	0.091 J	0.079 J	0.090 J	0.085 J	0.068 J	
Arsenic	24	2.5	18	NA	1.7	2.2	2.2	1.9	NA	1.6	2.1	1.9	1.8	1.6	
Barium	8,100	220	300	NA	35.9	44.5	44.0	44.1	NA	33.5	48.0	37.7	39.2	32.3	
Beryllium	38	0.92	40	NA	0.27 J	0.33 J	0.31 J	0.35 J	NA	0.23 J	0.32 J	0.30 J	0.24 J	0.23 J	
Cadmium	51	0.75	32	NA	0.067 J	0.25 U	0.44 J	0.35 J	NA	0.13 J	0.071 J	0.077 J	0.073 J	0.053 J	
Calcium	N/A	N/A	N/A	NA	4050J	6,140	4,440	8,820	NA	3,210	9,640	4,150	4,530	3,230	
Chromium	27,000	1,200	30	NA	5.0	5.8	56.9	5.8	NA	4.5	5.8	5.5	4.9	4.3	
Cobalt	370	110	N/A	NA	1.6	1.9	2.1	1.9	NA	1.5	1.9	1.8	1.7	1.5	
Copper	1,300	520	80	NA	2.7	2.9	11.5	9.8	NA	4.6	3.5	3.4	3.4	2.5	
Iron	N/A	N/A	N/A	NA	5160J	5,930	6,770	5,920	NA	4,610	5,990	5,630	5,020	4,400	
Lead	500	1.5	15	NA	4.4	4.6	42.9	10.5	NA	5.9	5.2	5.4	5.5	4.1	
Magnesium	N/A	N/A	N/A	NA	1,350	1,600	1,640	1,610	NA	1,260	1,680	1,440	1,410	1,200	
Manganese	3,800	580	450	NA	64.0J	72.3	83.2	72.3	NA	60.2	73.1	73.3	69.1	59.8	
Nickel	840	79	280	NA	3.7	4.5	6.1	5.3	NA	3.6	4.6	4.0	3.9	3.7	
Potassium	N/A	N/A	N/A	NA	1,260	1,430	1,540	1,450	NA	1,210	1,450	1,370	1,310	1,140	
Selenium	310	1.1	0.3	NA	1.8	2.1	2.1	2.3	NA	1.9	2.2	2.1	1.9	1.8	
Silver	97	0.24	0.48	NA	0.24 UJ	0.25 U	0.24 U	0.24 U	NA	0.23 U	0.25 U	0.25 U	0.23 U	0.24 U	
Sodium	N/A	N/A	N/A	NA	26.5 J	30.4 J	49.9	34.2 J	NA	22.9 J	31.9 J	27.5 J	27.3 J	21.7 J	
Thallium	6.3	0.87	N/A	NA	0.066 J	0.065 J	0.063 J	0.060 J	NA	0.052 J	0.066 J	0.058 J	0.055 J	0.24 U	
Vanadium	75	440	N/A	NA	8.0J	9.5	9.2	8.7	NA	6.8	9.4	8.9	7.9	6.5	
Zinc	9,900	1,200	120	NA	15.8J	17.3J	77.2J	50.9J	NA	23.2J	17.4J	17.5J	18.1J	14.1J	
Mercury by Method SW846 7471B	mg/Kg	mg/Kg			mg/Kg	mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Mercury	2.1	0.0039	40	NA	0.0098 J	0.013 J	0.0098 J	0.012 J	NA	0.010 J	0.0098 J	0.0074 J	0.013 J	0.0096 J	

Notes:

PALs, in *italics*, were selected as the most conservative screening value using the applicable Human Health Screening Values for residential soil and protection of groundwater ((TRRP Tier 1 PCLs for residential soil, 30 acre source area)), and Ecological Screening Values (TCEQ Ecological Risk Assessment Program, Draft: Conducting Ecological Risk Assessments at Remediation Sites in Texas, Table 3.4. Used lowest value of earthworm and plant. Revised Jan 2014. RG 263 (<https://www.tceq.texas.gov/assets/public/remediation/trrp/rg263-draft.pdf>).

mg/Kg - miligrams per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)			FEIDS-SS10-SO-10	FEIDS-SB1-SO-11	FEIDS-SB2-SO-12	FEIDS-TB-03	FEIDS-SB3-SO-13	FEIDS-SB4-SO-14	FEIDS-SB5-SO-15	FEIDS-SB6-SO-16	FEIDS-SB7-SO-17	FEIDS-SB8-SO-18	FEIDS-SB9-SO-19
Lab Identification	Human Health Screening Values (mg/kg)		Ecological Screening Values	FA41762-7	FA41762-8	FA41762-9	FA41805-1	FA41805-2	FA41805-3	FA41805-4	FA41805-5	FA41805-6	FA41805-7	FA41805-8
Date	Direct Contact (^{Tot} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Ing})		3/3/17	3/3/17	3/3/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix				Soil	Soil	Soil	AQ - Trip Blank Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil
Metals by Method SW846 6020A	mg/Kg	mg/Kg		mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	64,000	86,000	N/A	4,080	3,550	3,620	NA	4,770	4,020	4,240	4,680	4,860	4,720	4,700
Antimony	15	2.7	78	0.071 J	0.081 J	0.070 J	NA	0.12 J	0.093 J	0.090 J	0.10 J	0.097 J	0.093 J	0.097 J
Arsenic	24	2.5	18	1.6	2.0	2.1	NA	2.4	3.3	3.4	2.6	2.7	2.2	2.1
Barium	8,100	220	300	32.9	103	108	NA	155	200	210	126	102	48.2	57.2
Beryllium	38	0.92	40	0.25 J	0.20 J	0.18 J	NA	0.25 J	0.23 J	0.19 J	0.24 J	0.17 J	0.35 J	0.35 J
Cadmium	51	0.75	32	0.23 U	0.24 U	0.25 U	NA	0.081 J	0.094 J	0.093 J	0.048 J	0.23 U	0.042 J	0.045 J
Calcium	N/A	N/A	N/A	5,730	121,000	144,000	NA	99,000	176,000	184,000	99,400	96,000	9,630	11,400
Chromium	27,000	1,200	30	3.9	2.8	2.4	NA	5.5	3.9	4.0	5.4	5.0	5.7	6.1
Cobalt	370	110	N/A	1.3	1.4	1.5	NA	2.0	1.9	2.1	2.1	2.1	1.9	2.2
Copper	1,300	520	80	2.2	1.5	0.84	NA	2.0	2.1	2.2	2.2	2.1	2.6	2.9
Iron	N/A	N/A	N/A	4,050	2,430	2,180	NA	4,600	3,500	3,620	4,770	4,600	6,010	6,510
Lead	500	1.5	15	3.4	2.0	2.1	NA	3.6	3.8	3.9	2.7	2.8	4.0	4.3
Magnesium	N/A	N/A	N/A	1,140	7,490	6,370	NA	5,150	7,570	7,780	3,950	5,360	1,500	1,460
Manganese	3,800	580	450	51.8	24.0	24.6	NA	46.0	36.0	36.7	50.1	43.9	69.5	85.4
Nickel	840	79	280	3.1	4.0	4.7	NA	5.2	4.9	5.4	4.3	5.4	4.2	4.4
Potassium	N/A	N/A	N/A	972	447	353	NA	851	594	619	852	797	1010	926
Selenium	310	1.1	0.3	1.4	1.5	1.4	NA	1.4	1.1	1.3	1.5	1.6	2.1	2.0
Silver	97	0.24	0.48	0.23 U	0.24 U	0.25 U	NA	0.26 U	0.21 U	0.23 U	0.24 U	0.23 U	0.18 U	0.22 U
Sodium	N/A	N/A	N/A	21.9 J	606	500	NA	343	214	224	228	178	38.6	32.5 J
Thallium	6.3	0.87	N/A	0.045 J	0.24 U	0.25 U	NA	0.26 U	0.21 U	0.23 U	0.24 U	0.23 U	0.053 J	0.057 J
Vanadium	75	440	N/A	6.2	8.2	7.7	NA	11.6	12.0	12.3	11.0	12.0	10.4	11.7
Zinc	9,900	1,200	120	12.3J	12.7J	7.3J	NA	12.9J	16.7J	16.5J	12.7J	11.4J	14.6J	16.4J
Mercury by Method SW846 7471B	mg/Kg	mg/Kg		mg/Kg	mg/Kg	mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg			
Mercury	2.1	0.0039	40	0.0095 J	0.015 U	0.016 U	NA	0.017 U	0.017 U	0.0099 J	0.010 J	0.0085 J	0.014 J	0.0089 J

Notes:

PALs, in *italics*, were selected as the most conservative screening value using the applicable Human Health Screening Values for residential soil and protection of groundwater ((TRRP Tier 1 PCLs for residential soil, 30 acre source area)), and Ecological Screening Values (TCEQ Ecological Risk Assessment Program, Draft: Conducting Ecological Risk Assessments at Remediation Sites in Texas, Table 3.4. Used lowest value of earthworm and plant. Revised Jan 2014. RG 263 (<https://www.tceq.texas.gov/assets/public/remediation/trrp/rg263-draft.pdf>).

mg/Kg - miligrams per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

Fort Bliss Far East Illegal Dump Site
Samples Collected March, 2017

Sample Identification	Project Action Levels (PALs)			FEIDS-SB10-SO-20	FEIDS-SB11-SO-21	FEIDS-SS11-SO-22	FEIDS-SS12-SO-23	FEIDS-SS13-SO-23	FEIDS-SS14-SO-24	FEIDS-SB12-SO-25	FEIDS-SS15-SO-26	FEIDS-SB13-SO-27	FEIDS-SS16-SO-28	FEIDS-SB14-SO-29
Lab Identification	Human Health Screening Values (mg/kg)		Ecological Screening Values	FA41805-9	FA41805-10	FA41805-11	FA41805-12	FA41805-13	FA41805-14	FA41805-15	FA41805-16	FA41805-17	FA41805-18	FA41805-19
Date	Direct Contact (^{Tot} Soil _{Comb})	protection of groundwater (^{GW} Soil _{Ing})		3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17	3/6/17
Matrix				Soil	Soil	Soil-Parent	Soil-Field Duplicate	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Metals by Method SW846 6020A	mg/Kg	mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	64,000	86,000	N/A	7,210	6,970	4,200	4,980	4,920	3810J	4,450	4,750	4,940	2,770	4,320
Antimony	15	2.7	78	0.13 J	0.074 J	0.16 J	0.13 J	0.12 J	0.10 J	0.092 J	0.088 J	0.079 J	0.077 J	0.076 J
Arsenic	24	2.5	18	3.5	2.8	1.8	2.0	2.2	1.6	2.3	2.0	3.1	1.5	2.3
Barium	8,100	220	300	291	117	34.7	41.0	41.6	28.6J	92.2	38.4	112	21.2	54.4
Beryllium	38	0.92	40	0.31 J	0.39 J	0.23 J	0.30 J	0.32 J	0.22 J	0.26 J	0.23 J	0.25 J	0.20 J	0.21 J
Cadmium	51	0.75	32	0.23 U	0.22 U	0.072 J	0.073 J	0.047 J	0.068 J	0.047 J	0.039 J	0.25 U	0.057 J	0.047 J
Calcium	N/A	N/A	N/A	77,100	124,000	7,490	8,760	8,480	1,790	113,000	3,410	142,000	1,070	35,100
Chromium	27,000	1,200	30	6.7	5.6	5.2	5.6	5.9	4.8	4.1	5.7	4.2	3.8	5.5
Cobalt	370	110	N/A	2.5	2.1	1.8	1.9	2.0	1.5	2.3	1.9	2.2	1.2	1.8
Copper	1,300	80	80	3.5	1.2	2.9	3.0	2.8	2.8	1.8	2.7	1.4	2.0	2.2
Iron	N/A	N/A	N/A	6,500	5,170	6,140	6,470	6,560	5310J	4,230	6,350	4,030	4,410	5,500
Lead	500	1.5	15	3.7	3.3	4.9	4.8	4.1	4.6	2.7	3.9	2.5	4.0	3.5
Magnesium	N/A	N/A	N/A	15,300	7,140	1,220	1,360	1,460	1,020	4,650	1,340	8,300	732	1,530
Manganese	3,800	580	450	71.7	40.5	68.6	75.7	76.7	64.6J	44.8	81.0	38.8	49.9	56.9
Nickel	840	79	280	5.9	5.6	4.0	3.9	4.1	3.1	5.2	4.0	5.6	2.2	3.9
Potassium	N/A	N/A	N/A	1200	761	1000	1130	1250	1060	677	1310	673	739	877
Selenium	310	1.1	0.3	2.1	1.9	1.8	2.2	2.1	1.8	1.4	2.0	1.4	1.4	1.9
Silver	97	0.24	0.48	0.23 U	0.22 U	0.21 U	0.20 U	0.23 U	0.20 UJ	0.23 U	0.17 U	0.25 U	0.16 U	0.17 U
Sodium	N/A	N/A	N/A	110	638	21.8 J	36.6 J	26.4 J	18.7 J	235	24.0 J	638	14.2 J	30.8 J
Thallium	6.3	0.87	N/A	0.062 J	0.052 J	0.048 J	0.057 J	0.056 J	0.046 J	0.23 U	0.053 J	0.25 U	0.032 J	0.047 J
Vanadium	75	440	N/A	19.9	15.2	10.7	11.1	11.1	8.2J	9.9	9.9	16.1	7.9	10.0
Zinc	9,900	1,200	120	15.2J	11.2J	18.3J	17.9J	16.6J	13.9J	10.1J	15J	9.7J	11.0J	13.1J
Mercury by Method SW846 7471B	mg/Kg	mg/Kg												
Mercury	2.1	0.0039	40	0.012 J	0.0065 J	0.0083 J	0.0080 J	0.0088 J	0.0090 J	0.0070 J	0.0098 J	0.0065 J	0.0096 J	0.0084 J

Notes:

PALs, in italics, were selected as the most conservative screening value using the applicable Human Health Screening Values for residential soil and protection of groundwater ((TRRP Tier 1 PCLs for residential soil, 30 acre source area)), and Ecological Screening Values (TCEQ Ecological Risk Assessment Program, Draft: Conducting Ecological Risk Assessments at Remediation Sites in Texas, Table 3.4. Used lowest value of earthworm and plant. Revised Jan 2014. RG 263 (<https://www.tceq.texas.gov/assets/public/remediation/trrp/rg263-draft.pdf>).

mg/Kg - miligrams per kilogram

U - Result is not detected J- The quantitation is an estimation.

UJ- The parameter was not detected, the quantitation is an estimation.

N/A - Not established NA - Not analyzed

Bold result indicates positively detected value

Highlighted results exceed the screening levels

SDG FA41730

ATTACHMENT 1

CHAIN OF CUSTODY FORMS

FA 41730

CAPESM CAPE ENVIRONMENTAL MANAGEMENT INC
BLOSSOM BUSINESS CENTER
12037 STARCREST DRIVE
SAN ANTONIO, TX 78247

CHAIN-OF-CUSTODY RECORD

(If no box checked use

routine)

☒ Routine☒ Urgent☐ EMERGENCY

Chain of Custody Number FEIDS01		Project Manager (Print) Mike Bowlby		CAPE Project Manager (Print) Ben Shivar		Laboratory SGS ACCUTEST	
Contractor CAPE		Project Name ER services at Four IRP Sites and Military Munitions Program sites at Fort Bliss		Sampler's Name (Print) Seth Moorehead		Laboratory Contract Number	
ERPIMS Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Site(s) Far East Illegal Dump Site		Seal (b)(1) (6)		ANALYSES REQUESTED	

Sample Number LNNNNNNNN	Station Number LLNNNLLNN N	Sample Type (E-21) See VVL	Sample Matrix (E-17) See VVL	Sample Method (E-23) See VVL	Begin Depth NN.N	End Depth NN.N	Date dd mm yy NN LL NN	Time 24 HR NNNN	Field Lot Number NNNL	Num ber of Con ta in er s	TCL VOCs (503/8260)	TCL SVOCs (354/8270)	TAL Metals (6020/7000)	TCL Pesticides (354/8081)	TCL Herbicides (3550/8151)	PCBs (354/8082)	TPH (1005/1006)	TX 1005/1006 % 20/15	See Notes
1 FEIDS-TB-01	- -	TB-1	WQ	NA	--	--	02MAR17	0600	001A	2	X								
2 FEIDS-SS1-80-0	Grid 1	N-1	SO	G/CS	0.0	0.5	02MAR17	1120	000A	6	X	X	X	X	X	X	X	X	#2
3 FEIDS-SS2-80-02	Grid 2	N-1	SO	G/CS	0.0	0.5	02MAR17	1220	000A	6	X	X	X	X	X	X	X	X	#2
4 FEIDS-SS3-80-03	Grid 3	N-1	SO	G/CS	0.0	0.5	02MAR17	1355	000A	6	X	X	X	X	X	X	X	X	#2
5 FEIDS-SS4-80-04	Grid 4	N-1	SO	G/CS	0.0	0.5	02MAR17	1520	000A	6	X	X	X	X	X	X	X	X	#2

Relinquished By (Signature) (b)(6)	Date/Time [Redacted]	Received By (Signature) [Redacted]	Date/Time [Redacted]	PROTOCOL (circle one) HAZWRAP (EPA) OTHER
Relinquished By (Signature) FX	Date/Time	Received By (Signature) J. Corne (A/E)	Date/Time 03-03-17 04:30	QC LEVEL (circle one) 1 2 3 (2) 5
Relinquished By (Signature)	Date/Time	Received By (Signature)	Date/Time	FOR LABORATORY USE ONLY
Sample Shipped Via (circle one): UPS <input checked="" type="checkbox"/> FED-EX AIRBORNE BUS HAND OTHER				CONDITIONS OF SAMPLES UPON RECEIPT
Waybill Number:				CHAIN OF CUSTODY Y N ICE
				REQUEST FOR ANAL Y N TEMP
				CUSTODY SEAL Y N pH
				SAMPLE CONDITION

REMARKS (Notes): *1pm*
 1) Turn around time of 5 days
 2) 15 point multi-incremental soil sample associated with analysis 8270, 6020, 8081, 8151, and 8082 to be sieved and composited @ lab.

Run the MATRIX SPIKE / MATRIX SPIKE DUPLICATE on: **4-8**

6.1
6

FA41730: Chain of Custody

Page 1 of 4

SGS

454 of 1994

ACCUTEST

FA41730

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: FA 41730 CLIENT: CAPE PROJECT: ER SERVICES
DATE/TIME RECEIVED: 03-03-17 ^{09:30} {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1
METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
AIRBILL NUMBERS: 8113 1396 6451

COOLER INFORMATION

- ☐ CUSTODY SEAL NOT PRESENT OR NOT INTACT
☐ CHAIN OF CUSTODY NOT RECEIVED (COC)
☐ ANALYSIS REQUESTED IS UNCLEAR OR MISSING
☐ SAMPLE DATES OR TIMES UNCLEAR OR MISSING
☐ TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- ☒ TRIP BLANK PROVIDED
☐ TRIP BLANK NOT PROVIDED
☐ TRIP BLANK NOT ON COC
☒ TRIP BLANK INTACT
☐ TRIP BLANK NOT INTACT
☒ RECEIVED WATER TRIP BLANK
☐ RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
NUMBER OF 5035 FIELD KITS ? 4
NUMBER OF LAB FILTERED METALS ? _____

TEST STRIP LOT#s pH 0-3 230315pH 10-12 219813A

OTHER (specify) _____

SUMMARY OF COMMENTS: _____

TEMPERATURE INFORMATION

- ☐ IR THERM ID 1 CORR. FACTOR +0.8
☐ OBSERVED TEMPS: 4.0
☐ CORRECTED TEMPS: 4.8 (USED FOR LIMS)

SAMPLE INFORMATION

- ☐ INCORRECT NUMBER OF CONTAINERS USED
☐ SAMPLE RECEIVED IMPROPERLY PRESERVED
☐ INSUFFICIENT VOLUME FOR ANALYSIS
☐ DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
☐ ID'S ON COC DO NOT MATCH LABEL
☐ VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
☐ BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
☐ NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
☐ UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
☐ SAMPLE CONTAINER(S) RECEIVED BROKEN
☐ 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
☐ BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
☐ % SOLIDS JAR NOT RECEIVED
☐ RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE (b) 03-03-17 REVIEWER SIGNATURE/DATE (b) (6)

NF 02/16

receipt confirmation 020116.xls

FA41730: Chain of Custody

Page 2 of 4

ATTACHMENT 2

DATA SUMMARY REPORTS



ACCUTEST
Southeast

04/06/17

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

Technical Report for

Cape, Inc

Far East Dump Site, Fort Bliss, TX

SGS Accutest Job Number: FA41730

Sampling Date: 03/02/17

Report to:

Cape, Inc
500 Pinnacle Ct
Norcross, GA 30071
wvermeychuk@cape-inc.com; chemistrysvcs@cape-inc.com
ATTN: Wayne Vermeychuk

Total number of pages in report: 1994



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

(b) (6)

(b) (6)

Technical Director

Client Service contact: (b) (6) (b) (6)

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(L-A-B L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.



Sample Summary

Cape, Inc

Job No: FA41730

Far East Dump Site, Fort Bliss, TX

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA41730-1	03/02/17	06:00 SM	03/03/17	AQ	Trip Blank Soil	FEIDS-TB-01
FA41730-2	03/02/17	11:20 SM	03/03/17	SO	Soil	FEIDS-SS1-S0-01
FA41730-2A	03/02/17	11:20 SM	03/03/17	SO	Soil	FEIDS-SS1-S0-01
FA41730-3	03/02/17	12:20 SM	03/03/17	SO	Soil	FEIDS-SS2-S0-02
FA41730-3A	03/02/17	12:20 SM	03/03/17	SO	Soil	FEIDS-SS2-S0-02
FA41730-4	03/02/17	13:55 SM	03/03/17	SO	Soil	FEIDS-SS3-S0-03
FA41730-4A	03/02/17	13:55 SM	03/03/17	SO	Soil	FEIDS-SS3-S0-03
FA41730-5	03/02/17	15:20 SM	03/03/17	SO	Soil	FEIDS-SS4-S0-04
FA41730-5A	03/02/17	15:20 SM	03/03/17	SO	Soil	FEIDS-SS4-S0-04

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE



Client: Cape, Inc

Job No: FA41730

Site: Far East Dump Site, Fort Bliss, TX

Report Date: 4/6/2017 11:19:14

4 Sample(s), 1 Trip Blank(s) were collected on 03/02/2017 and were received at SGS Accutest Southeast (SASE) on 03/03/2017 properly preserved, at 4.8 Deg. C and intact. These Samples received an SASE job number of FA41730. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

FA41730-2, FA41730-3, FA41730-4, FA41730-5: Sample air dried prior to analysis; percent solids reported as 100%.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: V1A136

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41719-13MS, FA41719-13MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Benzene are outside lab and DOD QSM control limits. % Recovery was above upper control limit, but sample was ND for this compound.

Matrix Spike Recovery(s) for 4-Methyl-2-pentanone (MIBK), Benzene, Bromobenzene, Ethylbenzene, Trichloroethylene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 4-Methyl-2-pentanone (MIBK), Benzene, Bromobenzene, Chloroform, Ethylbenzene, Methylene Bromide, Toluene, Trichloroethylene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

FA41730-1 for Benzene: Associated BS recovery outside control limits.

Matrix: SO

Batch ID: V2B76

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41730-2AMS, FA41730-2AMSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Hexachlorobutadiene, Vinyl Acetate are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Matrix Spike Duplicate Recovery(s) for Vinyl Acetate are outside control limits. Probable cause is due to matrix

FA41730-2A: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41730-3A: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41730-4A: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41730-5A: Pre-weighed vials were altered in the field; sample weights are estimated.

Extractables by GCMS By Method SW846 8270D

Matrix: SO

Batch ID: OP64194

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41983-7MS, FA41983-7MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 3,3'-Dichlorobenzidine are outside lab and DOD QSM control limits. % Recovery was above upper control limit, but samples were ND for this compound.

Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine, 4-Nitroaniline, Anthracene, Fluoranthene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 4-Nitroaniline, Anthracene, Benzo(k)fluoranthene, Carbazole, Fluoranthene are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for 3,3'-Dichlorobenzidine, Pyrene are outside control limits for sample OP64194-MSD1. Probable cause is due to sample non-homogeneity.

For Sample(s) FA41730-2, FA41730-3, FA41730-4, FA41730-5 are associated with an ICV that has a recovery for 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, Benzidine, 3,3'-Dichlorobenzidine outside control limits.

Thursday, April 06, 2017

Page 1 of 5

Extractables by GCMS By Method SW846 8270D

Matrix: SO

Batch ID: OP64194

FA41730-2 for 3,3'-Dichlorobenzidine: Associated BS recovery outside control limits.
 FA41730-3 for 3,3'-Dichlorobenzidine: Associated BS recovery outside control limits.
 FA41730-4 for 3,3'-Dichlorobenzidine: Associated BS recovery outside control limits.
 FA41730-5 for 3,3'-Dichlorobenzidine: Associated BS recovery outside control limits.

Extractables by GC By Method SW846 8081B

Matrix: SO

Batch ID: OP64199

All samples were extracted within the recommended method holding time.
 All samples were analyzed within the recommended method holding time.
 All method blanks for this batch meet method specific criteria.
 Sample(s) FA41730-3MS, FA41730-3MSD were used as the QC samples indicated.
 Blank Spike Recovery(s) for alpha-BHC, alpha-Chlordane, gamma-Chlordane are outside lab control limits. % Recoveries were above lab control limits, but samples were ND for these compounds. % Recoveries were within DOD QSM control limits.
 Matrix Spike Duplicate Recovery(s) for alpha-Chlordane, gamma-Chlordane are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.
 FA41730-2: All hits confirmed by dual column analysis.
 FA41730-2 for alpha-BHC: Associated BS recovery outside control limits.
 FA41730-2 for alpha-Chlordane: Associated BS recovery outside control limits.
 FA41730-2 for gamma-Chlordane: Associated BS recovery outside control limits.
 FA41730-3: All hits confirmed by dual column analysis.
 FA41730-3 for gamma-Chlordane: Associated BS and MS/MSD outside of control limits.
 FA41730-3 for alpha-Chlordane: Associated BS and MS/MSD outside of control limits.
 FA41730-3 for alpha-BHC: Associated BS recovery outside control limits.
 FA41730-4: All hits confirmed by dual column analysis.
 FA41730-4 for alpha-BHC: Associated BS recovery outside control limits.
 FA41730-4 for alpha-Chlordane: Associated BS recovery outside control limits.
 FA41730-4 for gamma-Chlordane: Associated BS recovery outside control limits.
 FA41730-5: All hits confirmed by dual column analysis.
 FA41730-5 for alpha-BHC: Associated BS recovery outside control limits.
 FA41730-5 for alpha-Chlordane: Associated BS recovery outside control limits.
 FA41730-5 for gamma-Chlordane: Associated BS recovery outside control limits.

Extractables by GC By Method SW846 8082A

Matrix: SO

Batch ID: OP64200

All samples were extracted within the recommended method holding time.
 All samples were analyzed within the recommended method holding time.
 All method blanks for this batch meet method specific criteria.
 Sample(s) FA41730-5MS, FA41730-5MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8151A

Matrix: SO

Batch ID: OP64197

All samples were extracted within the recommended method holding time.
 All samples were analyzed within the recommended method holding time.
 All method blanks for this batch meet method specific criteria.
 Sample(s) FA41730-4MS, FA41730-4MSD were used as the QC samples indicated.
 Blank Spike Recovery(s) for Dinoseb are outside control limits.
 Matrix Spike Recovery(s) for Dicamba, Dinoseb are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.
 Matrix Spike Duplicate Recovery(s) for Dalapon, Dicamba, Dichloroprop, Dinoseb, Pentachlorophenol are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.
 Sample(s) FA41730-2, FA41730-3, FA41730-4, FA41730-5, OP64197-MB, OP64197-MS, OP64197-MSD have surrogates outside control limits.

Thursday, April 06, 2017

Page 2 of 5

Extractables by GC By Method SW846 8151A

Matrix: SO

Batch ID: OP64197

OP64197-MB for 2,4-DCAA: Outside control limits.

OP64197-MS for 2,4-DCAA: Outside control limits.

OP64197-MSD for 2,4-DCAA: Outside control limits.

FA41730-2 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41730-3 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41730-4 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41730-5 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

Matrix: SO

Batch ID: OP64338

FA41730-2: Confirmation run for surrogate recoveries.

FA41730-3: Confirmation run for surrogate recoveries.

FA41730-4: Confirmation run for surrogate recoveries.

FA41730-5: Confirmation run for surrogate recoveries.

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31807

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41730-2DUP, FA41730-2MS, FA41730-2MSD, FA41730-2PS, FA41730-2SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Aluminum, Antimony, Calcium, Iron are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Iron, Manganese, Vanadium are outside control limits.

Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

RPD(s) for Duplicate for Beryllium, Cadmium, Thallium are outside control limits for sample MP31807-D2. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for MSD for Vanadium are outside control limits for sample MP31807-S2. High RPD due to possible sample non-homogeneity.

RPD(s) for Serial Dilution for Antimony, Beryllium, Cadmium, Sodium, Thallium, Zinc are outside control limits for sample MP31807-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP31807-SD1 for Zinc: Serial dilution indicates possible matrix interference.

MP31807-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP31807-PS1 for Silver: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FA41730-4 for Sodium: Sample dilution required due to difficult matrix.

FA41730-4 for Silver: Sample dilution required due to difficult matrix.

FA41730-2 for Silver: Sample dilution required due to difficult matrix.

FA41730-4 for Calcium: Sample dilution required due to difficult matrix.

FA41730-5 for Arsenic: Sample dilution required due to difficult matrix.

FA41730-4 for Selenium: Sample dilution required due to difficult matrix.

FA41730-4 for Potassium: Sample dilution required due to difficult matrix.

FA41730-4 for Nickel: Sample dilution required due to difficult matrix.

FA41730-4 for Manganese: Sample dilution required due to difficult matrix.

FA41730-4 for Magnesium: Sample dilution required due to difficult matrix.

FA41730-4 for Lead: Sample dilution required due to difficult matrix.

FA41730-4 for Iron: Sample dilution required due to difficult matrix.

FA41730-4 for Copper: Sample dilution required due to difficult matrix.

FA41730-4 for Cobalt: Sample dilution required due to difficult matrix.

Thursday, April 06, 2017

Page 3 of 5

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31807

FA41730-4 for Thallium: Sample dilution required due to difficult matrix.
FA41730-5 for Copper: Sample dilution required due to difficult matrix.
FA41730-5 for Vanadium: Sample dilution required due to difficult matrix.
FA41730-5 for Thallium: Sample dilution required due to difficult matrix.
FA41730-5 for Sodium: Sample dilution required due to difficult matrix.
FA41730-5 for Silver: Sample dilution required due to difficult matrix.
FA41730-5 for Selenium: Sample dilution required due to difficult matrix.
FA41730-5 for Potassium: Sample dilution required due to difficult matrix.
FA41730-5 for Nickel: Sample dilution required due to difficult matrix.
FA41730-5 for Manganese: Sample dilution required due to difficult matrix.
FA41730-5 for Magnesium: Sample dilution required due to difficult matrix.
FA41730-5 for Aluminum: Sample dilution required due to difficult matrix.
FA41730-5 for Iron: Sample dilution required due to difficult matrix.
FA41730-4 for Vanadium: Sample dilution required due to difficult matrix.
FA41730-5 for Cobalt: Sample dilution required due to difficult matrix.
FA41730-5 for Chromium: Sample dilution required due to difficult matrix.
FA41730-5 for Calcium: Sample dilution required due to difficult matrix.
FA41730-5 for Cadmium: Sample dilution required due to difficult matrix.
FA41730-5 for Beryllium: Sample dilution required due to difficult matrix.
FA41730-5 for Barium: Sample dilution required due to difficult matrix.
FA41730-4 for Cadmium: Sample dilution required due to difficult matrix.
FA41730-5 for Antimony: Sample dilution required due to difficult matrix.
FA41730-4 for Beryllium: Sample dilution required due to difficult matrix.
FA41730-4 for Zinc: Sample dilution required due to difficult matrix.
FA41730-5 for Lead: Sample dilution required due to difficult matrix.
FA41730-2 for Beryllium: Sample dilution required due to difficult matrix.
FA41730-4 for Barium: Sample dilution required due to difficult matrix.
FA41730-2 for Zinc: Sample dilution required due to difficult matrix.
FA41730-4 for Chromium: Sample dilution required due to difficult matrix.
FA41730-2 for Thallium: Sample dilution required due to difficult matrix.
FA41730-5 for Zinc: Sample dilution required due to difficult matrix.
FA41730-2 for Sodium: Sample dilution required due to difficult matrix.
FA41730-2 for Aluminum: Sample dilution required due to difficult matrix.
FA41730-2 for Antimony: Sample dilution required due to difficult matrix.
FA41730-3 for Antimony: Sample dilution required due to difficult matrix.
FA41730-2 for Barium: Sample dilution required due to difficult matrix.
FA41730-3 for Aluminum: Sample dilution required due to difficult matrix.
FA41730-2 for Cadmium: Sample dilution required due to difficult matrix.
FA41730-2 for Calcium: Sample dilution required due to difficult matrix.
FA41730-2 for Chromium: Sample dilution required due to difficult matrix.
FA41730-2 for Cobalt: Sample dilution required due to difficult matrix.
FA41730-2 for Copper: Sample dilution required due to difficult matrix.
FA41730-2 for Iron: Sample dilution required due to difficult matrix.
FA41730-2 for Lead: Sample dilution required due to difficult matrix.
FA41730-2 for Magnesium: Sample dilution required due to difficult matrix.
FA41730-2 for Manganese: Sample dilution required due to difficult matrix.
FA41730-2 for Nickel: Sample dilution required due to difficult matrix.
FA41730-2 for Potassium: Sample dilution required due to difficult matrix.
FA41730-2 for Selenium: Sample dilution required due to difficult matrix.
FA41730-2 for Arsenic: Sample dilution required due to difficult matrix.
FA41730-3 for Sodium: Sample dilution required due to difficult matrix.

Thursday, April 06, 2017

Page 4 of 5

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31807

FA41730-2 for Vanadium: Sample dilution required due to difficult matrix.
FA41730-3 for Magnesium: Sample dilution required due to difficult matrix.
FA41730-3 for Manganese: Sample dilution required due to difficult matrix.
FA41730-3 for Nickel: Sample dilution required due to difficult matrix.
FA41730-3 for Potassium: Sample dilution required due to difficult matrix.
FA41730-3 for Iron: Sample dilution required due to difficult matrix.
FA41730-3 for Silver: Sample dilution required due to difficult matrix.
FA41730-3 for Copper: Sample dilution required due to difficult matrix.
FA41730-3 for Thallium: Sample dilution required due to difficult matrix.
FA41730-3 for Vanadium: Sample dilution required due to difficult matrix.
FA41730-3 for Zinc: Sample dilution required due to difficult matrix.
FA41730-4 for Aluminum: Sample dilution required due to difficult matrix.
FA41730-4 for Antimony: Sample dilution required due to difficult matrix.
FA41730-4 for Arsenic: Sample dilution required due to difficult matrix.
FA41730-3 for Selenium: Sample dilution required due to difficult matrix.
FA41730-3 for Calcium: Sample dilution required due to difficult matrix.
FA41730-3 for Cobalt: Sample dilution required due to difficult matrix.
FA41730-3 for Barium: Sample dilution required due to difficult matrix.
FA41730-3 for Chromium: Sample dilution required due to difficult matrix.
FA41730-3 for Beryllium: Sample dilution required due to difficult matrix.
FA41730-3 for Cadmium: Sample dilution required due to difficult matrix.
FA41730-3 for Lead: Sample dilution required due to difficult matrix.
FA41730-3 for Arsenic: Sample dilution required due to difficult matrix.

Metals By Method SW846 7471B

Matrix: SO

Batch ID: MP31803

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA41730-2DUP, FA41730-2MS, FA41730-2MSD, FA41730-2SDL were used as the QC samples for metals.
RPD(s) for Duplicate for Mercury are outside control limits for sample MP31803-D2. RPD acceptable due to low duplicate and sample concentrations.
RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP31803-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540G

Matrix: SO

Batch ID: GN74314

Sample(s) FA41846-1DUP were used as the QC samples for Solids, Percent.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Kim Benham, Client Services (signature on file)

Date April 6, 2017

Thursday, April 06, 2017

Page 5 of 5

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-TB-01
 Lab Sample ID: FA41730-1
 Matrix: AQ - Trip Blank Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17
 Date Received: 03/03/17
 Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A03581.D	1	03/07/17	AJ	n/a	n/a	V1A136
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene ^a	0.50 U	1.0	0.50	0.31	ug/l	
108-86-1	Bromobenzene	0.50 U	1.0	0.50	0.37	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
104-51-8	n-Butylbenzene	0.50 U	1.0	0.50	0.23	ug/l	
135-98-8	sec-Butylbenzene	0.50 U	1.0	0.50	0.24	ug/l	
98-06-6	tert-Butylbenzene	0.50 U	1.0	0.50	0.31	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
95-49-8	o-Chlorotoluene	0.50 U	1.0	0.50	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.50 U	1.0	0.50	0.31	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
142-28-9	1,3-Dichloropropane	0.50 U	1.0	0.50	0.31	ug/l	
594-20-7	2,2-Dichloropropane	0.50 U	1.0	0.50	0.24	ug/l	

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-TB-01
 Lab Sample ID: FA41730-1
 Matrix: AQ - Trip Blank Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17
 Date Received: 03/03/17
 Percent Solids: n/a

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	0.50 U	1.0	0.50	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	2.0	1.0	0.30	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
99-87-6	p-Isopropyltoluene	0.50 U	1.0	0.50	0.21	ug/l	
74-83-9	Methyl Bromide	1.0 U	2.0	1.0	0.59	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
74-95-3	Methylene Bromide	0.50 U	2.0	0.50	0.37	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.50 U	1.0	0.50	0.29	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.67	1.0	0.50	0.30	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	2.0	1.0	0.63	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	1.0	0.50	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	1.0	0.50	0.27	ug/l	
108-05-4	Vinyl Acetate	5.0 U	10	5.0	2.0	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	102%		85-112%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-TB-01
Lab Sample ID: FA41730-1
Matrix: AQ - Trip Blank Soil
Method: SW846 8260B
Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17
Date Received: 03/03/17
Percent Solids: n/a

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		83-118%

(a) Associated BS recovery outside DOD QSM control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS1-S0-01

Lab Sample ID: FA41730-2A

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8260B

Percent Solids: 84.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2264.D	1	03/03/17	SP	n/a	n/a	V2B76
Run #2							

	Initial Weight	Final Volume
Run #1	7.31 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U ^J	41	20	8.1	ug/kg	
71-43-2	Benzene	1.6 U	4.1	1.6	0.99	ug/kg	
108-86-1	Bromobenzene	1.6 U	4.1	1.6	0.81	ug/kg	
74-97-5	Bromochloromethane	1.6 U	4.1	1.6	1.2	ug/kg	
75-27-4	Bromodichloromethane	1.6 U	4.1	1.6	0.81	ug/kg	
75-25-2	Bromoform	1.6 U	4.1	1.6	0.81	ug/kg	
78-93-3	2-Butanone (MEK)	12 U	20	12	5.9	ug/kg	
104-51-8	n-Butylbenzene	1.6 U	4.1	1.6	0.81	ug/kg	
135-98-8	sec-Butylbenzene	1.6 U	4.1	1.6	0.81	ug/kg	
98-06-6	tert-Butylbenzene	1.6 U	4.1	1.6	0.81	ug/kg	
75-15-0	Carbon Disulfide	1.6 U	4.1	1.6	0.81	ug/kg	
56-23-5	Carbon Tetrachloride	1.6 U	4.1	1.6	0.83	ug/kg	
108-90-7	Chlorobenzene	1.6 U	4.1	1.6	0.81	ug/kg	
75-00-3	Chloroethane	2.8 U	4.1	2.8	1.6	ug/kg	
67-66-3	Chloroform	1.6 U	4.1	1.6	1.1	ug/kg	
95-49-8	o-Chlorotoluene	1.6 U	4.1	1.6	0.81	ug/kg	
106-43-4	p-Chlorotoluene	1.6 U	4.1	1.6	0.81	ug/kg	
124-48-1	Dibromochloromethane	1.6 U	4.1	1.6	0.81	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.8 U	4.1	2.8	1.6	ug/kg	
106-93-4	1,2-Dibromoethane	1.6 U	4.1	1.6	0.81	ug/kg	
75-71-8	Dichlorodifluoromethane	2.8 U	4.1	2.8	1.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.6 U	4.1	1.6	0.81	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.6 U	4.1	1.6	0.81	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.6 U	4.1	1.6	0.93	ug/kg	
75-34-3	1,1-Dichloroethane	1.6 U	4.1	1.6	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	1.6 U	4.1	1.6	0.81	ug/kg	
75-35-4	1,1-Dichloroethylene	1.6 U	4.1	1.6	0.81	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.6 U	4.1	1.6	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.6 U	4.1	1.6	0.81	ug/kg	
78-87-5	1,2-Dichloropropane	1.6 U	4.1	1.6	0.81	ug/kg	
142-28-9	1,3-Dichloropropane	1.6 U	4.1	1.6	0.81	ug/kg	
594-20-7	2,2-Dichloropropane	1.6 U ^V	4.1	1.6	0.81	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS

Report of Analysis

Client Sample ID: FEIDS-SS1-S0-01
 Lab Sample ID: FA41730-2A
 Matrix: SO - Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17

Date Received: 03/03/17

Percent Solids: 84.2

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.6 U J	4.1	1.6	0.83	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.6 U	4.1	1.6	0.81	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.6 U	4.1	1.6	0.81	ug/kg	
100-41-4	Ethylbenzene	1.6 U	4.1	1.6	0.81	ug/kg	
87-68-3	Hexachlorobutadiene	1.6 U	4.1	1.6	1.0	ug/kg	
591-78-6	2-Hexanone	12 U	20	12	6.1	ug/kg	
98-82-8	Isopropylbenzene	1.6 U	4.1	1.6	0.81	ug/kg	
99-87-6	p-Isopropyltoluene	1.6 U	4.1	1.6	0.81	ug/kg	
74-83-9	Methyl Bromide	2.8 U	4.1	2.8	1.6	ug/kg	
74-87-3	Methyl Chloride	2.8 U	4.1	2.8	1.6	ug/kg	
74-95-3	Methylene Bromide	1.6 U	4.1	1.6	0.81	ug/kg	
75-09-2	Methylene Chloride	4.1 U	8.1	4.1	3.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	12 U	20	12	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.6 U	4.1	1.6	0.81	ug/kg	
91-20-3	Naphthalene	2.8 U	4.1	2.8	1.6	ug/kg	
103-65-1	n-Propylbenzene	1.6 U	4.1	1.6	0.81	ug/kg	
100-42-5	Styrene	1.6 U	4.1	1.6	0.81	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.6 U	4.1	1.6	0.84	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.6 U	4.1	1.6	0.81	ug/kg	
127-18-4	Tetrachloroethylene	1.6 U	4.1	1.6	1.0	ug/kg	
108-88-3	Toluene	1.6 U	4.1	1.6	0.81	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.8 U	4.1	2.8	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.8 U	4.1	2.8	0.81	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.6 U	4.1	1.6	0.81	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.6 U	4.1	1.6	0.81	ug/kg	
79-01-6	Trichloroethylene	1.6 U	4.1	1.6	0.81	ug/kg	
75-69-4	Trichlorofluoromethane	2.8 U	4.1	2.8	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.8 U	4.1	2.8	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.6 U	4.1	1.6	0.81	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.6 U	4.1	1.6	0.81	ug/kg	
108-05-4	Vinyl Acetate	16 U	20	16	13	ug/kg	
75-01-4	Vinyl Chloride	1.6 U	4.1	1.6	0.81	ug/kg	
	m,p-Xylene	3.2 U	8.1	3.2	0.89	ug/kg	
95-47-6	o-Xylene	1.6 U	4.1	1.6	0.81	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		75-124%
17060-07-0	1,2-Dichloroethane-D4	101%		72-135%
2037-26-5	Toluene-D8	100%		75-126%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS1-S0-01

Lab Sample ID: FA41730-2A

Matrix: SO - Soil

Method: SW846 8260B

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17

Date Received: 03/03/17

Percent Solids: 84.2

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID:	FEIDS-SS1-S0-01	Date Sampled:	03/02/17
Lab Sample ID:	FA41730-2	Date Received:	03/03/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X053077.D	1	03/24/17	NG	03/16/17	OP64194	SX2247
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	830	330	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	170	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	170	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	170	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	67 U	170	67	44	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	830	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	67	ug/kg	
95-48-7	2-Methylphenol	33 U	170	33	20	ug/kg	
	3&4-Methylphenol	67 U	170	67	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	170	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	830	330	170	ug/kg	
87-86-5	Pentachlorophenol	330 U	830	330	170	ug/kg	
108-95-2	Phenol	33 U	170	33	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	170	33	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	170	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	170	33	18	ug/kg	
208-96-8	Acenaphthylene	33 U	170	33	17	ug/kg	
62-53-3	Aniline	67 U	170	67	36	ug/kg	
120-12-7	Anthracene	33 U	170	33	19	ug/kg	
92-87-5	Benzidine ^b	830 U J	1700	830	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	170	33	17	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	170	33	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	170	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	170	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	170	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	170	33	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	170	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	67 U	170	67	33	ug/kg	
86-74-8	Carbazole	33 U	170	33	23	ug/kg	
106-47-8	4-Chloroaniline ^b	67 U J	170	67	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	170	33	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Client Sample ID: FEIDS-SS1-S0-01
 Lab Sample ID: FA41730-2
 Matrix: SO - Soil
 Method: SW846 8270D SW846 3550C
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17

Date Received: 03/03/17

Percent Solids: n/a ^a

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	170	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	170	33	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	170	33	17	ug/kg	
218-01-9	Chrysene	33 U	170	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	170	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	170	33	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	67 U	170	67	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	67 U	170	67	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	67 U	170	67	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine ^b	67 U J	170	67	40	ug/kg	
84-66-2	Diethyl Phthalate	120 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	67 U	170	67	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	67 U	170	67	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	170	33	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	170	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	170	33	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	170	33	17	ug/kg	
86-73-7	Fluorene	33 U	170	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	170	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	67 U	170	67	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	67 U	170	67	33	ug/kg	
67-72-1	Hexachloroethane	67 U	170	67	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	170	33	20	ug/kg	
78-59-1	Isophorone	33 U	170	33	17	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-20-3	Naphthalene	33 U	170	33	17	ug/kg	
88-74-4	2-Nitroaniline	67 U	170	67	39	ug/kg	
99-09-2	3-Nitroaniline ^b	67 U J	170	67	19	ug/kg	
100-01-6	4-Nitroaniline	67 U	170	67	48	ug/kg	
98-95-3	Nitrobenzene	33 U	170	33	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	67 U	170	67	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	170	33	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	67 U	170	67	18	ug/kg	
85-01-8	Phenanthrene	33 U	170	33	17	ug/kg	
129-00-0	Pyrene	33 U	170	33	19	ug/kg	
110-86-1	Pyridine	120 U	330	120	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	170	33	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS1-S0-01	Date Sampled:	03/02/17
Lab Sample ID:	FA41730-2	Date Received:	03/03/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	78%		40-102%
4165-62-2	Phenol-d5	82%		41-100%
118-79-6	2,4,6-Tribromophenol	86%		42-108%
4165-60-0	Nitrobenzene-d5	87%		40-105%
321-60-8	2-Fluorobiphenyl	85%		43-107%
1718-51-0	Terphenyl-d14	83%		45-119%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Associated ICV outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS1-S0-01

Lab Sample ID: FA41730-2

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8151A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053909.D	1	03/21/17	MG	03/16/17	OP64197	GCC1114
Run #2 ^b	CC054028.D	1	03/27/17	MG	03/26/17	OP64338	GCC1117

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2	15.1 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	16 U ^J	32	16	8.3	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.6 U	3.2	1.6	0.9I	ug/kg	
93-76-5	2,4,5-T	1.6 U	3.2	1.6	0.84	ug/kg	
1918-00-9	Dicamba	1.6 U	3.2	1.6	0.76	ug/kg	
88-85-7	Dinoseb	32 U	81	32	16	ug/kg	
75-99-0	Dalapon	65 U	160	65	32	ug/kg	
120-36-5	Dichloroprop	16 U	32	16	8.1	ug/kg	
94-82-6	2,4-DB	16 U	32	16	8.4	ug/kg	
93-65-2	MCP	1600 U	3200	1600	830	ug/kg	
94-74-6	MCPA	2400 U	3200	2400	1600	ug/kg	
87-86-5	Pentachlorophenol	1.6 U ^N	3.2	1.6	0.69	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	3% ^c	74%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS1-S0-01

Lab Sample ID: FA41730-2

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8081B SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	TT381475.D	1	03/21/17	MV	03/16/17	OP64199	GTT1929
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.83 U	1.7	0.83	0.52	ug/kg	
319-84-6	alpha-BHC ^c	0.83 U	1.7	0.83	0.52	ug/kg	
319-85-7	beta-BHC	0.83 U	1.7	0.83	0.49	ug/kg	
319-86-8	delta-BHC	0.83 U	1.7	0.83	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.83 U	1.7	0.83	0.50	ug/kg	
5103-71-9	alpha-Chlordane ^c	0.83 U	1.7	0.83	0.52	ug/kg	
5103-74-2	gamma-Chlordane ^c	0.83 U	1.7	0.83	0.48	ug/kg	
60-57-1	Dieldrin	0.83 U	1.7	0.83	0.46	ug/kg	
72-54-8	4,4'-DDD	0.83 U	3.3	0.83	0.46	ug/kg	
72-55-9	4,4'-DDE	0.83 U	3.3	0.83	0.60	ug/kg	
50-29-3	4,4'-DDT	0.83 U	3.3	0.83	0.51	ug/kg	
72-20-8	Endrin	1.7 U	3.3	1.7	0.84	ug/kg	
1031-07-8	Endosulfan sulfate	0.83 U	3.3	0.83	0.44	ug/kg	
7421-93-4	Endrin aldehyde	1.3	3.3	0.83	0.38	ug/kg	J
53494-70-5	Endrin ketone	0.83 U	3.3	0.83	0.52	ug/kg	
959-98-8	Endosulfan-I	0.83 U	1.7	0.83	0.38	ug/kg	
33213-65-9	Endosulfan-II	0.83 U	1.7	0.83	0.39	ug/kg	
76-44-8	Heptachlor	0.83 U	1.7	0.83	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	0.83 U	1.7	0.83	0.49	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.3	1.7	0.66	ug/kg	
8001-35-2	Toxaphene	41 U	83	41	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%		50-122%
2051-24-3	Decachlorobiphenyl	90%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) All hits confirmed by dual column analysis.

(c) Associated BS recovery outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS1-S0-01

Lab Sample ID: FA41730-2

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8082A SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39835.D	1	03/20/17	NJ	03/16/17	OP64200	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.6	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.3	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.3	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.6	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.6	ug/kg	
11097-69-1	Aroclor 1254	12 U ^J	17	12	6.6	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		44-126%
2051-24-3	Decachlorobiphenyl	96%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS1-S0-01

Lab Sample ID: FA41730-2

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17

Date Received: 03/03/17

Percent Solids: n/a ^a

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	4930 J	48	12	2.1	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^b	0.091 J	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^b	1.7	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^b	35.9	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^b	0.27 J	0.48	0.24	0.051	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^b	0.067 J	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^b	4050 J	48	24	3.4	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^b	5.0	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^b	1.6	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^b	2.7	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^b	5160 J	48	12	3.8	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^b	4.4	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^b	1350	48	24	2.5	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^b	64.0 J	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.0098 J	0.040	0.016	0.0040	mg/kg	1	03/17/17	03/17/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^b	3.7	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^b	1260	48	24	3.1	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^b	1.8	0.48	0.24	0.086	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^b	0.24 U J	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^b	26.5 J	48	24	2.3	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^b	0.066 J	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^b	8.0 J	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^b	15.8 J	0.48	0.24	0.14	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13902

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31803

(4) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS2-S0-02

Lab Sample ID: FA41730-3A

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8260B

Percent Solids: 86.3

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2265.D	1	03/03/17	SP	n/a	n/a	V2B76
Run #2							

	Initial Weight	Final Volume
Run #1	7.10 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U ^J	4.1	20	8.2	ug/kg	
71-43-2	Benzene	1.6 U	4.1	1.6	1.0	ug/kg	
108-86-1	Bromobenzene	1.6 U	4.1	1.6	0.82	ug/kg	
74-97-5	Bromochloromethane	1.6 U	4.1	1.6	1.2	ug/kg	
75-27-4	Bromodichloromethane	1.6 U	4.1	1.6	0.82	ug/kg	
75-25-2	Bromoform	1.6 U	4.1	1.6	0.82	ug/kg	
78-93-3	2-Butanone (MEK)	12 U	20	12	5.9	ug/kg	
104-51-8	n-Butylbenzene	1.6 U	4.1	1.6	0.82	ug/kg	
135-98-8	sec-Butylbenzene	1.6 U	4.1	1.6	0.82	ug/kg	
98-06-6	tert-Butylbenzene	1.6 U	4.1	1.6	0.82	ug/kg	
75-15-0	Carbon Disulfide	1.6 U	4.1	1.6	0.82	ug/kg	
56-23-5	Carbon Tetrachloride	1.6 U	4.1	1.6	0.83	ug/kg	
108-90-7	Chlorobenzene	1.6 U	4.1	1.6	0.82	ug/kg	
75-00-3	Chloroethane	2.9 U	4.1	2.9	1.6	ug/kg	
67-66-3	Chloroform	1.6 U	4.1	1.6	1.1	ug/kg	
95-49-8	o-Chlorotoluene	1.6 U	4.1	1.6	0.82	ug/kg	
106-43-4	p-Chlorotoluene	1.6 U	4.1	1.6	0.82	ug/kg	
124-48-1	Dibromochloromethane	1.6 U	4.1	1.6	0.82	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.9 U	4.1	2.9	1.6	ug/kg	
106-93-4	1,2-Dibromoethane	1.6 U	4.1	1.6	0.82	ug/kg	
75-71-8	Dichlorodifluoromethane	2.9 U	4.1	2.9	1.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.6 U	4.1	1.6	0.82	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.6 U	4.1	1.6	0.82	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.6 U	4.1	1.6	0.94	ug/kg	
75-34-3	1,1-Dichloroethane	1.6 U	4.1	1.6	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	1.6 U	4.1	1.6	0.82	ug/kg	
75-35-4	1,1-Dichloroethylene	1.6 U	4.1	1.6	0.82	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.6 U	4.1	1.6	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.6 U	4.1	1.6	0.82	ug/kg	
78-87-5	1,2-Dichloropropane	1.6 U	4.1	1.6	0.82	ug/kg	
142-28-9	1,3-Dichloropropane	1.6 U	4.1	1.6	0.82	ug/kg	
594-20-7	2,2-Dichloropropane	1.6 U	4.1	1.6	0.82	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS2-S0-02

Lab Sample ID: FA41730-3A

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8260B

Percent Solids: 86.3

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.6 U J	4.1	1.6	0.83	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.6 U	4.1	1.6	0.82	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.6 U	4.1	1.6	0.82	ug/kg	
100-41-4	Ethylbenzene	1.6 U	4.1	1.6	0.82	ug/kg	
87-68-3	Hexachlorobutadiene	1.6 U	4.1	1.6	1.1	ug/kg	
591-78-6	2-Hexanone	12 U	20	12	6.1	ug/kg	
98-82-8	Isopropylbenzene	1.6 U	4.1	1.6	0.82	ug/kg	
99-87-6	p-Isopropyltoluene	1.6 U	4.1	1.6	0.82	ug/kg	
74-83-9	Methyl Bromide	2.9 U	4.1	2.9	1.6	ug/kg	
74-87-3	Methyl Chloride	2.9 U	4.1	2.9	1.6	ug/kg	
74-95-3	Methylene Bromide	1.6 U	4.1	1.6	0.82	ug/kg	
75-09-2	Methylene Chloride	4.1 U	8.2	4.1	3.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	12 U	20	12	6.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.6 U	4.1	1.6	0.82	ug/kg	
91-20-3	Naphthalene	2.9 U	4.1	2.9	1.6	ug/kg	
103-65-1	n-Propylbenzene	1.6 U	4.1	1.6	0.82	ug/kg	
100-42-5	Styrene	1.6 U	4.1	1.6	0.82	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.6 U	4.1	1.6	0.84	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.6 U	4.1	1.6	0.82	ug/kg	
127-18-4	Tetrachloroethylene	1.6 U	4.1	1.6	1.0	ug/kg	
108-88-3	Toluene	1.6 U	4.1	1.6	0.82	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.9 U	4.1	2.9	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.9 U	4.1	2.9	0.82	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.6 U	4.1	1.6	0.82	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.6 U	4.1	1.6	0.82	ug/kg	
79-01-6	Trichloroethylene	1.6 U	4.1	1.6	0.82	ug/kg	
75-69-4	Trichlorofluoromethane	2.9 U	4.1	2.9	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.9 U	4.1	2.9	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.6 U	4.1	1.6	0.82	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.6 U	4.1	1.6	0.82	ug/kg	
108-05-4	Vinyl Acetate	16 U	20	16	13	ug/kg	
75-01-4	Vinyl Chloride	1.6 U	4.1	1.6	0.82	ug/kg	
	m,p-Xylene	3.3 U	8.2	3.3	0.90	ug/kg	
95-47-6	o-Xylene	1.6 U	4.1	1.6	0.82	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		75-124%
17060-07-0	1,2-Dichloroethane-D4	109%		72-135%
2037-26-5	Toluene-D8	99%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS2-S0-02

Lab Sample ID: FA41730-3A

Matrix: SO - Soil

Method: SW846 8260B

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17

Date Received: 03/03/17

Percent Solids: 86.3

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS

36 of 1994
ACCUTEST
F.F.F. 4.4.101P

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS2-S0-02

Lab Sample ID: FA41730-3

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X053078.D	1	03/24/17	NG	03/16/17	OP64194	SX2247
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	830	330	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	170	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	170	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	170	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	66 U	170	66	44	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	830	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	66	ug/kg	
95-48-7	2-Methylphenol	33 U	170	33	20	ug/kg	
	3&4-Methylphenol	66 U	170	66	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	170	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	830	330	170	ug/kg	
87-86-5	Pentachlorophenol	330 U	830	330	170	ug/kg	
108-95-2	Phenol	33 U	170	33	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	170	33	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	170	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	170	33	18	ug/kg	
208-96-8	Acenaphthylene	33 U	170	33	17	ug/kg	
62-53-3	Aniline	66 U	170	66	36	ug/kg	
120-12-7	Anthracene	33 U	170	33	19	ug/kg	
92-87-5	Benzidine ^b	830 U ^J	1700	830	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	170	33	17	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	170	33	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	170	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	170	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	170	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	170	33	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	170	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	66 U	170	66	33	ug/kg	
86-74-8	Carbazole	33 U	170	33	23	ug/kg	
106-47-8	4-Chloroaniline ^b	66 U ^J	170	66	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	170	33	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS2-S0-02

Lab Sample ID: FA41730-3

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	170	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	170	33	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	170	33	17	ug/kg	
218-01-9	Chrysene	33 U	170	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	170	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	170	33	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	66 U	170	66	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	66 U	170	66	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	66 U	170	66	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine ^b	66 U J	170	66	40	ug/kg	
84-66-2	Diethyl Phthalate	120 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	66 U	170	66	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	66 U	170	66	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	170	33	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	170	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	170	33	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	170	33	17	ug/kg	
86-73-7	Fluorene	33 U	170	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	170	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	66 U	170	66	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	66 U	170	66	33	ug/kg	
67-72-1	Hexachloroethane	66 U	170	66	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	170	33	20	ug/kg	
78-59-1	Isophorone	33 U	170	33	17	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-20-3	Naphthalene	33 U	170	33	17	ug/kg	
88-74-4	2-Nitroaniline	66 U	170	66	39	ug/kg	
99-09-2	3-Nitroaniline ^b	66 U J	170	66	19	ug/kg	
100-01-6	4-Nitroaniline	66 U	170	66	48	ug/kg	
98-95-3	Nitrobenzene	33 U	170	33	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	66 U	170	66	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	170	33	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	66 U	170	66	18	ug/kg	
85-01-8	Phenanthrene	33 U	170	33	17	ug/kg	
129-00-0	Pyrene	33 U	170	33	19	ug/kg	
110-86-1	Pyridine	120 U	330	120	66	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	170	33	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS2-S0-02	Date Sampled:	03/02/17
Lab Sample ID:	FA41730-3	Date Received:	03/03/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	76%		40-102%
4165-62-2	Phenol-d5	78%		41-100%
118-79-6	2,4,6-Tribromophenol	82%		42-108%
4165-60-0	Nitrobenzene-d5	82%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	79%		45-119%

(a) Sample air dried prior to analysis: percent solids reported as 100%.

(b) Associated ICV outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS2-S0-02

Lab Sample ID: FA41730-3

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8151A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053910.D	1	03/21/17	MG	03/16/17	OP64197	GCC1114
Run #2 ^b	CC054031.D	1	03/27/17	MG	03/26/17	OP64338	GCC1117

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2	15.0 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	16 U ^J	32	16	8.3	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.6 U	3.2	1.6	0.91	ug/kg	
93-76-5	2,4,5-T	1.6 U	3.2	1.6	0.84	ug/kg	
1918-00-9	Dicamba	1.6 U	3.2	1.6	0.76	ug/kg	
88-85-7	Dinoseb	32 U	81	32	16	ug/kg	
75-99-0	Dalapon	65 U	160	65	32	ug/kg	
120-36-5	Dichloroprop	16 U	32	16	8.1	ug/kg	
94-82-6	2,4-DB	16 U	32	16	8.4	ug/kg	
93-65-2	MCP	1600 U	3200	1600	830	ug/kg	
94-74-6	MCPA	2400 U	3200	2400	1600	ug/kg	
87-86-5	Pentachlorophenol	1.6 U ^J	3.2	1.6	0.69	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^c	79%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

4.4
4

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS2-S0-02

Lab Sample ID: FA41730-3

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8081B SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	TT381476.D	1	03/21/17	MV	03/16/17	OP64199	GTT1929
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.82 U	1.6	0.82	0.52	ug/kg	
319-84-6	alpha-BHC ^c	0.82 U	1.6	0.82	0.52	ug/kg	
319-85-7	beta-BHC	0.82 U	1.6	0.82	0.48	ug/kg	
319-86-8	delta-BHC	0.82 U	1.6	0.82	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.82 U	1.6	0.82	0.49	ug/kg	
5103-71-9	alpha-Chlordane ^d	0.82 U ^J	1.6	0.82	0.51	ug/kg	
5103-74-2	gamma-Chlordane ^d	0.82 U ^J	1.6	0.82	0.47	ug/kg	
60-57-1	Dieldrin	0.82 U	1.6	0.82	0.46	ug/kg	
72-54-8	4,4'-DDD	0.82 U	3.3	0.82	0.45	ug/kg	
72-55-9	4,4'-DDE	0.82 U	3.3	0.82	0.60	ug/kg	
50-29-3	4,4'-DDT	0.82 U	3.3	0.82	0.50	ug/kg	
72-20-8	Endrin	1.6 U	3.3	1.6	0.83	ug/kg	
1031-07-8	Endosulfan sulfate	0.82 U	3.3	0.82	0.43	ug/kg	
7421-93-4	Endrin aldehyde	1.0	3.3	0.82	0.38	ug/kg	J
53494-70-5	Endrin ketone	0.82 U	3.3	0.82	0.52	ug/kg	
959-98-8	Endosulfan-I	0.82 U	1.6	0.82	0.38	ug/kg	
33213-65-9	Endosulfan-II	0.82 U	1.6	0.82	0.39	ug/kg	
76-44-8	Heptachlor	0.82 U	1.6	0.82	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	0.82 U	1.6	0.82	0.48	ug/kg	
72-43-5	Methoxychlor	1.6 U	3.3	1.6	0.66	ug/kg	
8001-35-2	Toxaphene	41 U	82	41	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		50-122%
2051-24-3	Decachlorobiphenyl	105%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) All hits confirmed by dual column analysis.

(c) Associated BS recovery outside control limits.

(d) Associated BS and MS/MSD outside of control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS2-S0-02

Lab Sample ID: FA41730-3

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8082A SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39836.D	1	03/20/17	NJ	03/16/17	OP64200	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	16	12	6.6	ug/kg	
11104-28-2	Aroclor 1221	12 U	16	12	8.2	ug/kg	
11141-16-5	Aroclor 1232	12 U	16	12	8.2	ug/kg	
53469-21-9	Aroclor 1242	12 U	16	12	6.6	ug/kg	
12672-29-6	Aroclor 1248	12 U	16	12	6.6	ug/kg	
11097-69-1	Aroclor 1254	12 U J	16	12	6.6	ug/kg	
11096-82-5	Aroclor 1260	12 U	16	12	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		44-126%
2051-24-3	Decachlorobiphenyl	99%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS2-S0-02

Lab Sample ID: FA41730-3

Matrix: SO - Soil

Date Sampled: 03/02/17

Date Received: 03/03/17

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	5850	50	13	2.2	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^b	0.085 J	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^b	2.2	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^b	44.5	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^h	0.33 J	0.50	0.25	0.054	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^b	0.25 U	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^h	6140	50	25	3.6	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^b	5.8	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^b	1.9	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^b	2.9	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^b	5930	50	13	4.0	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^b	4.6	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^b	1600	50	25	2.6	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^b	72.3	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.013 J	0.040	0.016	0.0040	mg/kg	1	03/17/17	03/17/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^b	4.5	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^b	1430	50	25	3.3	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^h	2.1	0.50	0.25	0.090	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^b	0.25 U	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^b	30.4 J	50	25	2.4	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^b	0.065 J	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^b	9.5	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^b	17.3 J	0.50	0.25	0.15	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13902

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31803

(4) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS

002458

(b) (6)

4.4

4

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS3-S0-03

Lab Sample ID: FA41730-4A

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8260B

Percent Solids: 82.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2266.D	1	03/03/17	SP	n/a	n/a	V2B76
Run #2							

	Initial Weight	Final Volume
Run #1	6.81 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	22 U ^J	45	22	8.9	ug/kg	
71-43-2	Benzene	1.8 U	4.5	1.8	1.1	ug/kg	
108-86-1	Bromobenzene	1.8 U	4.5	1.8	0.89	ug/kg	
74-97-5	Bromochloromethane	1.8 U	4.5	1.8	1.3	ug/kg	
75-27-4	Bromodichloromethane	1.8 U	4.5	1.8	0.89	ug/kg	
75-25-2	Bromoform	1.8 U	4.5	1.8	0.89	ug/kg	
78-93-3	2-Butanone (MEK)	13 U	22	13	6.5	ug/kg	
104-51-8	n-Butylbenzene	1.8 U	4.5	1.8	0.89	ug/kg	
135-98-8	sec-Butylbenzene	1.8 U	4.5	1.8	0.89	ug/kg	
98-06-6	tert-Butylbenzene	1.8 U	4.5	1.8	0.89	ug/kg	
75-15-0	Carbon Disulfide	1.8 U	4.5	1.8	0.89	ug/kg	
56-23-5	Carbon Tetrachloride	1.8 U	4.5	1.8	0.91	ug/kg	
108-90-7	Chlorobenzene	1.8 U	4.5	1.8	0.89	ug/kg	
75-00-3	Chloroethane	3.1 U	4.5	3.1	1.8	ug/kg	
67-66-3	Chloroform	1.8 U	4.5	1.8	1.2	ug/kg	
95-49-8	o-Chlorotoluene	1.8 U	4.5	1.8	0.89	ug/kg	
106-43-4	p-Chlorotoluene	1.8 U	4.5	1.8	0.89	ug/kg	
124-48-1	Dibromochloromethane	1.8 U	4.5	1.8	0.89	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	3.1 U	4.5	3.1	1.7	ug/kg	
106-93-4	1,2-Dibromoethane	1.8 U	4.5	1.8	0.89	ug/kg	
75-71-8	Dichlorodifluoromethane	3.1 U	4.5	3.1	1.8	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.8 U	4.5	1.8	0.89	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.8 U	4.5	1.8	0.89	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.8 U	4.5	1.8	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	1.8 U	4.5	1.8	1.6	ug/kg	
107-06-2	1,2-Dichloroethane	1.8 U	4.5	1.8	0.89	ug/kg	
75-35-4	1,1-Dichloroethylene	1.8 U	4.5	1.8	0.89	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.8 U	4.5	1.8	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.8 U	4.5	1.8	0.89	ug/kg	
78-87-5	1,2-Dichloropropane	1.8 U	4.5	1.8	0.89	ug/kg	
142-28-9	1,3-Dichloropropane	1.8 U	4.5	1.8	0.89	ug/kg	
594-20-7	2,2-Dichloropropane	1.8 U ^J	4.5	1.8	0.89	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS3-S0-03

Lab Sample ID: FA41730-4A

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8260B

Percent Solids: 82.2

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.8 U	4.5	1.8	0.91	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.8 U	4.5	1.8	0.89	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.8 U	4.5	1.8	0.89	ug/kg	
100-41-4	Ethylbenzene	1.8 U	4.5	1.8	0.89	ug/kg	
87-68-3	Hexachlorobutadiene	1.8 U	4.5	1.8	1.2	ug/kg	
591-78-6	2-Hexanone	13 U	22	13	6.7	ug/kg	
98-82-8	Isopropylbenzene	1.3	4.5	1.8	0.89	ug/kg	J
99-87-6	p-Isopropyltoluene	1.8 U	4.5	1.8	0.89	ug/kg	
74-83-9	Methyl Bromide	3.1 U	4.5	3.1	1.8	ug/kg	
74-87-3	Methyl Chloride	3.1 U	4.5	3.1	1.8	ug/kg	
74-95-3	Methylene Bromide	1.8 U	4.5	1.8	0.89	ug/kg	
75-09-2	Methylene Chloride	4.5 U	8.9	4.5	3.6	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	13 U	22	13	6.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.8 U	4.5	1.8	0.89	ug/kg	
91-20-3	Naphthalene	3.1 U	4.5	3.1	1.8	ug/kg	
103-65-1	n-Propylbenzene	1.8 U	4.5	1.8	0.89	ug/kg	
100-42-5	Styrene	1.8 U	4.5	1.8	0.89	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.8 U	4.5	1.8	0.92	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.8 U	4.5	1.8	0.89	ug/kg	
127-18-4	Tetrachloroethylene	1.8 U	4.5	1.8	1.1	ug/kg	
108-88-3	Toluene	1.8 U	4.5	1.8	0.89	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	3.1 U	4.5	3.1	1.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	3.1 U	4.5	3.1	0.89	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.8 U	4.5	1.8	0.89	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.8 U	4.5	1.8	0.89	ug/kg	
79-01-6	Trichloroethylene	1.8 U	4.5	1.8	0.89	ug/kg	
75-69-4	Trichlorofluoromethane	3.1 U	4.5	3.1	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	3.1 U	4.5	3.1	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.8 U	4.5	1.8	0.89	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.8 U	4.5	1.8	0.89	ug/kg	
108-05-4	Vinyl Acetate	18 U	22	18	15	ug/kg	
75-01-4	Vinyl Chloride	1.8 U	4.5	1.8	0.89	ug/kg	
	m,p-Xylene	3.6 U	8.9	3.6	0.98	ug/kg	
95-47-6	o-Xylene	1.8 U	4.5	1.8	0.89	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		75-124%
17060-07-0	1,2-Dichloroethane-D4	104%		72-135%
2037-26-5	Toluene-D8	100%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS3-S0-03

Lab Sample ID: FA41730-4A

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8260B

Percent Solids: 82.2

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS3-S0-03

Lab Sample ID: FA41730-4

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X053079.D	1	03/24/17	NG	03/16/17	OP64194	SX2247
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	830	330	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	170	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	170	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	170	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	67 U	170	67	44	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	830	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	67	ug/kg	
95-48-7	2-Methylphenol	33 U	170	33	20	ug/kg	
	3&4-Methylphenol	67 U	170	67	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	170	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	830	330	170	ug/kg	
87-86-5	Pentachlorophenol	330 U	830	330	170	ug/kg	
108-95-2	Phenol	33 U	170	33	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	170	33	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	170	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	170	33	18	ug/kg	
208-96-8	Acenaphthylene	33 U	170	33	17	ug/kg	
62-53-3	Aniline	67 U	170	67	36	ug/kg	
120-12-7	Anthracene	33 U	170	33	19	ug/kg	
92-87-5	Benzidine ^b	830 U ^J	1700	830	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	170	33	17	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	170	33	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	170	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	170	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	170	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	170	33	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	170	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	67 U	170	67	33	ug/kg	
86-74-8	Carbazole	33 U	170	33	23	ug/kg	
106-47-8	4-Chloroaniline ^b	67 U ^J	170	67	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	170	33	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS3-S0-03
 Lab Sample ID: FA41730-4
 Matrix: SO - Soil
 Method: SW846 8270D SW846 3550C
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17

Date Received: 03/03/17

Percent Solids: n/a^a

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	170	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	170	33	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	170	33	17	ug/kg	
218-01-9	Chrysene	33 U	170	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	170	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	170	33	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	67 U	170	67	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	67 U	170	67	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	67 U	170	67	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine ^b	67 U J	170	67	40	ug/kg	
84-66-2	Diethyl Phthalate	120 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	67 U	170	67	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	67 U	170	67	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	170	33	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	170	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	170	33	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	170	33	17	ug/kg	
86-73-7	Fluorene	33 U	170	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	170	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	67 U	170	67	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	67 U	170	67	33	ug/kg	
67-72-1	Hexachloroethane	67 U	170	67	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	170	33	20	ug/kg	
78-59-1	Isophorone	33 U	170	33	17	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-20-3	Naphthalene	33 U	170	33	17	ug/kg	
88-74-4	2-Nitroaniline	67 U	170	67	39	ug/kg	
99-09-2	3-Nitroaniline ^b	67 U J	170	67	19	ug/kg	
100-01-6	4-Nitroaniline	67 U	170	67	48	ug/kg	
98-95-3	Nitrobenzene	33 U	170	33	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	67 U	170	67	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	170	33	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	67 U	170	67	18	ug/kg	
85-01-8	Phenanthrene	33 U	170	33	17	ug/kg	
129-00-0	Pyrene	33 U	170	33	19	ug/kg	
110-86-1	Pyridine	120 U	330	120	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	170	33	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS3-S0-03	Date Sampled:	03/02/17
Lab Sample ID:	FA41730-4	Date Received:	03/03/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	83%		40-102%
4165-62-2	Phenol-d5	86%		41-100%
118-79-6	2,4,6-Tribromophenol	93%		42-108%
4165-60-0	Nitrobenzene-d5	91%		40-105%
321-60-8	2-Fluorobiphenyl	90%		43-107%
1718-51-0	Terphenyl-d14	89%		45-119%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Associated ICV outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS3-S0-03

Lab Sample ID: FA41730-4

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8151A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053911.D	1	03/21/17	MG	03/16/17	OP64197	GCC1114
Run #2 ^b	CC054032.D	1	03/27/17	MG	03/26/17	OP64338	GCC1117

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2	15.3 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	16 U ^J	33	16	8.4	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.6 U	3.3	1.6	0.92	ug/kg	
93-76-5	2,4,5-T	1.6 U	3.3	1.6	0.84	ug/kg	
1918-00-9	Dicamba	1.6 U	3.3	1.6	0.76	ug/kg	
88-85-7	Dinoseb	33 U	82	33	16	ug/kg	
75-99-0	Dalapon	65 U	160	65	33	ug/kg	
120-36-5	Dichloroprop	16 U	33	16	8.1	ug/kg	
94-82-6	2,4-DB	16 U	33	16	8.5	ug/kg	
93-65-2	MCP	1600 U	3300	1600	840	ug/kg	
94-74-6	MCPA	2500 U	3300	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.6 U ^J	3.3	1.6	0.69	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^c	80%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS3-S0-03

Lab Sample ID: FA41730-4

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8081B SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	TT381479.D	1	03/22/17	MV	03/16/17	OP64199	GTT1929
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.83 U	1.7	0.83	0.53	ug/kg	
319-84-6	alpha-BHC ^c	0.83 U	1.7	0.83	0.53	ug/kg	
319-85-7	beta-BHC	0.83 U	1.7	0.83	0.49	ug/kg	
319-86-8	delta-BHC	0.83 U	1.7	0.83	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.83 U	1.7	0.83	0.50	ug/kg	
5103-71-9	alpha-Chlordane ^c	0.83 U	1.7	0.83	0.52	ug/kg	
5103-74-2	gamma-Chlordane ^c	0.83 U	1.7	0.83	0.48	ug/kg	
60-57-1	Dieldrin	0.83 U	1.7	0.83	0.47	ug/kg	
72-54-8	4,4'-DDD	0.83 U	3.3	0.83	0.46	ug/kg	
72-55-9	4,4'-DDE	0.83 U	3.3	0.83	0.61	ug/kg	
50-29-3	4,4'-DDT	0.83 U	3.3	0.83	0.51	ug/kg	
72-20-8	Endrin	1.7 U	3.3	1.7	0.84	ug/kg	
1031-07-8	Endosulfan sulfate	0.83 U	3.3	0.83	0.44	ug/kg	
7421-93-4	Endrin aldehyde	1.9	3.3	0.83	0.39	ug/kg	J
53494-70-5	Endrin ketone	0.83 U	3.3	0.83	0.52	ug/kg	
959-98-8	Endosulfan-I	0.83 U	1.7	0.83	0.38	ug/kg	
33213-65-9	Endosulfan-II	0.83 U	1.7	0.83	0.39	ug/kg	
76-44-8	Heptachlor	0.83 U	1.7	0.83	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	0.83 U	1.7	0.83	0.49	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.3	1.7	0.67	ug/kg	
8001-35-2	Toxaphene	42 U	83	42	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		50-122%
2051-24-3	Decachlorobiphenyl	95%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) All hits confirmed by dual column analysis.

(c) Associated BS recovery outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS3-S0-03

Lab Sample ID: FA41730-4

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8082A SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39837.D	1	03/20/17	NJ	03/16/17	OP64200	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.7	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.3	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.3	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.7	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.7	ug/kg	
11097-69-1	Aroclor 1254	12 U ^J	17	12	6.7	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		44-126%
2051-24-3	Decachlorobiphenyl	97%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS3-S0-03

Lab Sample ID: FA41730-4

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17

Date Received: 03/03/17

Percent Solids: n/a ^a

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	5810	47	12	2.1	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^b	0.17 J	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^b	2.2	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^b	44.0	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^b	0.31 J	0.47	0.24	0.051	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^b	0.44 J	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^b	4440	47	24	3.4	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^b	56.9	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^b	2.1	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^b	11.5	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^b	6770	47	12	3.7	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^b	42.9	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^b	1640	47	24	2.5	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^b	83.2	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.0098 J	0.040	0.016	0.0040	mg/kg	1	03/17/17	03/17/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^b	6.1	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^b	1540	47	24	3.1	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^b	2.1	0.47	0.24	0.085	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^b	0.24 U	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^b	49.9	47	24	2.3	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^b	0.063 J	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^b	9.2	0.47	0.24	0.047	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^b	77.2 J	0.47	0.24	0.14	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13902

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31803

(4) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS4-S0-04

Lab Sample ID: FA41730-5A

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8260B

Percent Solids: 81.1

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2267.D	1	03/03/17	SP	n/a	n/a	V2B76
Run #2							

Run #	Initial Weight	Final Volume
Run #1	7.44 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	21 U ^J	4.1	2.1	8.3	ug/kg	
71-43-2	Benzene	1.7 U	4.1	1.7	1.0	ug/kg	
108-86-1	Bromobenzene	1.7 U	4.1	1.7	0.83	ug/kg	
74-97-5	Bromochloromethane	1.7 U	4.1	1.7	1.2	ug/kg	
75-27-4	Bromodichloromethane	1.7 U	4.1	1.7	0.83	ug/kg	
75-25-2	Bromoform	1.7 U	4.1	1.7	0.83	ug/kg	
78-93-3	2-Butanone (MEK)	12 U	2.1	1.2	6.0	ug/kg	
104-51-8	n-Butylbenzene	1.7 U	4.1	1.7	0.83	ug/kg	
135-98-8	sec-Butylbenzene	1.7 U	4.1	1.7	0.83	ug/kg	
98-06-6	tert-Butylbenzene	1.7 U	4.1	1.7	0.83	ug/kg	
75-15-0	Carbon Disulfide	1.7 U	4.1	1.7	0.83	ug/kg	
56-23-5	Carbon Tetrachloride	1.7 U	4.1	1.7	0.85	ug/kg	
108-90-7	Chlorobenzene	1.7 U	4.1	1.7	0.83	ug/kg	
75-00-3	Chloroethane	2.9 U	4.1	2.9	1.7	ug/kg	
67-66-3	Chloroform	1.7 U	4.1	1.7	1.1	ug/kg	
95-49-8	o-Chlorotoluene	1.7 U	4.1	1.7	0.83	ug/kg	
106-43-4	p-Chlorotoluene	1.7 U	4.1	1.7	0.83	ug/kg	
124-48-1	Dibromochloromethane	1.7 U	4.1	1.7	0.83	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.9 U	4.1	2.9	1.6	ug/kg	
106-93-4	1,2-Dibromoethane	1.7 U	4.1	1.7	0.83	ug/kg	
75-71-8	Dichlorodifluoromethane	2.9 U	4.1	2.9	1.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.7 U	4.1	1.7	0.83	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.7 U	4.1	1.7	0.83	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.7 U	4.1	1.7	0.95	ug/kg	
75-34-3	1,1-Dichloroethane	1.7 U	4.1	1.7	1.5	ug/kg	
107-06-2	1,2-Dichloroethane	1.7 U	4.1	1.7	0.83	ug/kg	
75-35-4	1,1-Dichloroethylene	1.7 U	4.1	1.7	0.83	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.7 U	4.1	1.7	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.7 U	4.1	1.7	0.83	ug/kg	
78-87-5	1,2-Dichloropropane	1.7 U	4.1	1.7	0.83	ug/kg	
142-28-9	1,3-Dichloropropane	1.7 U	4.1	1.7	0.83	ug/kg	
594-20-7	2,2-Dichloropropane	1.7 U ^N	4.1	1.7	0.83	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS4-S0-04
 Lab Sample ID: FA41730-5A
 Matrix: SO - Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17
 Date Received: 03/03/17
 Percent Solids: 81.1

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.7 U J	4.1	1.7	0.85	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.7 U	4.1	1.7	0.83	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.7 U	4.1	1.7	0.83	ug/kg	
100-41-4	Ethylbenzene	1.7 U	4.1	1.7	0.83	ug/kg	
87-68-3	Hexachlorohutadiene	1.7 U	4.1	1.7	1.1	ug/kg	
591-78-6	2-Hexanone	12 U	21	12	6.2	ug/kg	
98-82-8	Isopropylbenzene	1.7 U	4.1	1.7	0.83	ug/kg	
99-87-6	p-Isopropyltoluene	1.7 U	4.1	1.7	0.83	ug/kg	
74-83-9	Methyl Bromide	2.9 U	4.1	2.9	1.7	ug/kg	
74-87-3	Methyl Chloride	2.9 U	4.1	2.9	1.7	ug/kg	
74-95-3	Methylene Bromide	1.7 U	4.1	1.7	0.83	ug/kg	
75-09-2	Methylene Chloride	4.1 U	8.3	4.1	3.3	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	12 U	21	12	6.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.7 U	4.1	1.7	0.83	ug/kg	
91-20-3	Naphthalene	2.9 U	4.1	2.9	1.7	ug/kg	
103-65-1	n-Propylbenzene	1.7 U	4.1	1.7	0.83	ug/kg	
100-42-5	Styrene	1.7 U	4.1	1.7	0.83	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.7 U	4.1	1.7	0.85	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.7 U	4.1	1.7	0.83	ug/kg	
127-18-4	Tetrachloroethylene	1.7 U	4.1	1.7	1.1	ug/kg	
108-88-3	Toluene	1.0 J B	4.1	1.7	0.83	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.9 U J	4.1	2.9	1.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.9 U	4.1	2.9	0.83	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.7 U	4.1	1.7	0.83	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.7 U	4.1	1.7	0.83	ug/kg	
79-01-6	Trichloroethylene	1.7 U	4.1	1.7	0.83	ug/kg	
75-69-4	Trichlorofluoromethane	2.9 U	4.1	2.9	1.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.9 U	4.1	2.9	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.7 U	4.1	1.7	0.83	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.7 U	4.1	1.7	0.83	ug/kg	
108-05-4	Vinyl Acetate	17 U	21	17	14	ug/kg	
75-01-4	Vinyl Chloride	1.7 U	4.1	1.7	0.83	ug/kg	
	m,p-Xylene	3.3 U	8.3	3.3	0.91	ug/kg	
95-47-6	o-Xylene	1.7 U	4.1	1.7	0.83	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		75-124%
17060-07-0	1,2-Dichloroethane-D4	105%		72-135%
2037-26-5	Toluene-D8	101%		75-126%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS4-S0-04

Lab Sample ID: FA41730-5A

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8260B

Percent Solids: 81.1

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS4-S0-04

Lab Sample ID: FA41730-5

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X053080.D	1	03/24/17	NG	03/16/17	OP64194	SX2247
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	830	330	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	170	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	170	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	170	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	66 U	170	66	44	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	830	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	66	ug/kg	
95-48-7	2-Methylphenol	33 U	170	33	20	ug/kg	
	3&4-Methylphenol	66 U	170	66	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	170	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	830	330	170	ug/kg	
87-86-5	Pentachlorophenol	330 U	830	330	170	ug/kg	
108-95-2	Phenol	33 U	170	33	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	170	33	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	170	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	170	33	18	ug/kg	
208-96-8	Acenaphthylene	33 U	170	33	17	ug/kg	
62-53-3	Aniline	66 U	170	66	36	ug/kg	
120-12-7	Anthracene	33 U	170	33	19	ug/kg	
92-87-5	Benzidine ^b	830 U ^J	1700	830	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	170	33	17	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	170	33	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	170	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	170	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	170	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	170	33	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	170	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	66 U	170	66	33	ug/kg	
86-74-8	Carbazole	33 U	170	33	23	ug/kg	
106-47-8	4-Chloroaniline ^b	66 U ^J	170	66	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	170	33	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS4-S0-04
 Lab Sample ID: FA41730-5
 Matrix: SO - Soil
 Method: SW846 8270D SW846 3550C
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/02/17

Date Received: 03/03/17

Percent Solids: n/a ^a

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	170	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	170	33	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	170	33	17	ug/kg	
218-01-9	Chrysene	33 U	170	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	170	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	170	33	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	66 U	170	66	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	66 U	170	66	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	66 U	170	66	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine ^b	66 U J	170	66	40	ug/kg	
84-66-2	Diethyl Phthalate	120 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	66 U	170	66	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	66 U	170	66	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	170	33	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	170	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	170	33	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	170	33	17	ug/kg	
86-73-7	Fluorene	33 U	170	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	170	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	66 U	170	66	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	66 U	170	66	33	ug/kg	
67-72-1	Hexachloroethane	66 U	170	66	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	170	33	20	ug/kg	
78-59-1	Isophorone	33 U	170	33	17	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-20-3	Naphthalene	33 U	170	33	17	ug/kg	
88-74-4	2-Nitroaniline	66 U	170	66	39	ug/kg	
99-09-2	3-Nitroaniline ^b	66 U J	170	66	19	ug/kg	
100-01-6	4-Nitroaniline	66 U	170	66	48	ug/kg	
98-95-3	Nitrobenzene	33 U	170	33	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	66 U	170	66	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	170	33	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	66 U	170	66	18	ug/kg	
85-01-8	Phenanthrene	33 U	170	33	17	ug/kg	
129-00-0	Pyrene	33 U	170	33	19	ug/kg	
110-86-1	Pyridine	120 U	330	120	66	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	170	33	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS4-S0-04

Lab Sample ID: FA41730-5

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	82%		40-102%
4165-62-2	Phenol-d5	85%		41-100%
118-79-6	2,4,6-Tribromophenol	92%		42-108%
4165-60-0	Nitrobenzene-d5	87%		40-105%
321-60-8	2-Fluorobiphenyl	89%		43-107%
1718-51-0	Terphenyl-d14	90%		45-119%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Associated ICV outside control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS4-S0-04

Lab Sample ID: FA41730-5

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8151A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053914.D	1	03/21/17	MG	03/16/17	OP64197	GCC1114
Run #2 ^b	CC054033.D	1	03/27/17	MG	03/26/17	OP64338	GCC1117

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2	15.4 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	33	17	8.5	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.3	1.7	0.94	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.3	1.7	0.86	ug/kg	
1918-00-9	Dicamba	1.7 U	3.3	1.7	0.78	ug/kg	
88-85-7	Dinoseb	33 U	83	33	17	ug/kg	
75-99-0	Dalapon	67 U	170	67	33	ug/kg	
120-36-5	Dichloroprop	17 U	33	17	8.3	ug/kg	
94-82-6	2,4-DB	17 U	33	17	8.6	ug/kg	
93-65-2	MCP	1700 U	3300	1700	850	ug/kg	
94-74-6	MCPA	2500 U	3300	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.7 U	3.3	1.7	0.70	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^c	86%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS4-S0-04

Lab Sample ID: FA41730-5

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8081B SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	TT381480.D	1	03/22/17	MV	03/16/17	OP64199	GTT1929
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.83 U	1.7	0.83	0.52	ug/kg	
319-84-6	alpha-BHC ^c	0.83 U	1.7	0.83	0.52	ug/kg	
319-85-7	beta-BHC	0.83 U	1.7	0.83	0.49	ug/kg	
319-86-8	delta-BHC	0.83 U	1.7	0.83	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.83 U	1.7	0.83	0.50	ug/kg	
5103-71-9	alpha-Chlordane ^c	0.83 U	1.7	0.83	0.52	ug/kg	
5103-74-2	gamma-Chlordane ^c	0.83 U	1.7	0.83	0.48	ug/kg	
60-57-1	Dieldrin	0.83 U	1.7	0.83	0.46	ug/kg	
72-54-8	4,4'-DDD	0.83 U	3.3	0.83	0.46	ug/kg	
72-55-9	4,4'-DDE	0.83 U	3.3	0.83	0.60	ug/kg	
50-29-3	4,4'-DDT	0.83 U	3.3	0.83	0.51	ug/kg	
72-20-8	Endrin	1.7 U	3.3	1.7	0.84	ug/kg	
1031-07-8	Endosulfan sulfate	0.83 U	3.3	0.83	0.44	ug/kg	
7421-93-4	Endrin aldehyde	1.6	3.3	0.83	0.38	ug/kg	J
53494-70-5	Endrin ketone	0.83 U	3.3	0.83	0.52	ug/kg	
959-98-8	Endosulfan-I	0.83 U	1.7	0.83	0.38	ug/kg	
33213-65-9	Endosulfan-II	0.83 U	1.7	0.83	0.39	ug/kg	
76-44-8	Heptachlor	0.83 U	1.7	0.83	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	0.83 U	1.7	0.83	0.49	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.3	1.7	0.66	ug/kg	
8001-35-2	Toxaphene	41 U	83	41	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		50-122%
2051-24-3	Decachlorobiphenyl	86%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) All hits confirmed by dual column analysis.

(c) Associated BS recovery outside control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS4-S0-04

Lab Sample ID: FA41730-5

Date Sampled: 03/02/17

Matrix: SO - Soil

Date Received: 03/03/17

Method: SW846 8082A SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39838.D	1	03/20/17	NJ	03/16/17	OP64200	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.6	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.3	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.3	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.6	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.6	ug/kg	
11097-69-1	Aroclor 1254	12 U ^J	17	12	6.6	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		44-126%
2051-24-3	Decachlorobiphenyl	99%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS4-S0-04

Lab Sample ID: FA41730-5

Matrix: SO - Soil

Date Sampled: 03/02/17

Date Received: 03/03/17

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	5480	49	12	2.1	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^b	0.11 J	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^b	1.9	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^b	44.1	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^b	0.35 J	0.49	0.24	0.052	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^b	0.35 J	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^b	8820	49	24	3.5	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^b	5.8	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^b	1.9	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^b	9.8	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^b	5920	49	12	3.8	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^b	10.5	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^b	1610	49	24	2.5	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^b	72.3	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.012 J	0.040	0.016	0.0040	mg/kg	1	03/17/17	03/17/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^b	5.3	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^b	1450	49	24	3.2	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^b	2.3	0.49	0.24	0.087	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^b	0.24 U	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^b	34.2 J	49	24	2.3	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^b	0.060 J	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^b	8.7	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^b	50.9 J	0.49	0.24	0.14	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13902

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31803

(4) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ



NELAP CERTIFICATE NUMBER: 01955
DOD ELAP CERTIFICATE NUMBER: L14-243

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 03/14/2017

GCAL Report 217030720



Project FA41730X

Deliver To

Andrea Colby
SGS
4405 Vineyard Rd. C
Orlando, FL 32811
386-615-8479

Additional Recipients

NONE



Case Narrative

Client: SGS - Orlando **Report:** 217030720

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found for the analyzed sample(s).



1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217030720</u>	Client Sample ID: <u>FEIDS-SS1-SO-01</u>	
Collect Date: <u>03/02/17</u> Time: <u>1120</u>	GCAL Sample ID: <u>21703072001</u>	
Matrix: <u>Solid</u> % Moisture: <u>18.3</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10.1</u> g	Lab File ID: <u>2170310/sv20a020</u>	
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/09/17</u>	Analysis Date: <u>03/10/17</u> Time: <u>1919</u>	
Prep Batch: <u>605819</u>	Analytical Batch: <u>606154</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	38.8	U	5.27	38.8	60.6
GCSV-05-03	>C28-C35	38.8	U	5.27	38.8	60.6
GCSV-05-01	C6-C12	17.0	U	5.39	17.0	60.6
GCSV-05-04	TOTAL TPH (C6-C35)	38.8	U	5.27	38.8	60.6

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217030720</u>	Client Sample ID: <u>FEIDS-SS2-SO-02</u>
Collect Date: <u>03/02/17</u> Time: <u>1220</u>	GCAL Sample ID: <u>21703072002</u>
Matrix: <u>Solid</u> % Moisture: <u>21.5</u>	Instrument ID: <u>GCS20A</u>
Sample Amt: <u>10</u> g	Lab File ID: <u>2170310/sv20a021</u>
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>
Prep Date: <u>03/09/17</u>	Analysis Date: <u>03/10/17</u> Time: <u>1956</u>
Prep Batch: <u>605819</u>	Analytical Batch: <u>606154</u>
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	40.8	U	5.54	40.8	63.7
GCSV-05-03	>C28-C35	40.8	U	5.54	40.8	63.7
GCSV-05-01	C6-C12	17.8	U	5.67	17.8	63.7
GCSV-05-04	TOTAL TPH (C6-C35)	40.8	U	5.54	40.8	63.7

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217030720</u>	Client Sample ID: <u>FEIDS-SS3-SO-03</u>	
Collect Date: <u>03/02/17</u> Time: <u>1355</u>	GCAL Sample ID: <u>21703072003</u>	
Matrix: <u>Solid</u> % Moisture: <u>16.9</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10</u> g	Lab File ID: <u>2170310/sv20a022</u>	
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/09/17</u>	Analysis Date: <u>03/10/17</u> Time: <u>2029</u>	
Prep Batch: <u>605819</u>	Analytical Batch: <u>606154</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	38.5	U	5.23	38.5	60.2
GCSV-05-03	>C28-C35	38.5	U	5.23	38.5	60.2
GCSV-05-01	C6-C12	16.8	U	5.36	16.8	60.2
GCSV-05-04	TOTAL TPH (C6-C35)	38.5	U	5.23	38.5	60.2

FORM I ORG-1

GCAL Report#: 217030720

Page

10/03/2018

SGS

ACCUTEST
FA41730

002483

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217030720</u>	Client Sample ID: <u>FEIDS-SS4-SO-04</u>	
Collect Date: <u>03/02/17</u> Time: <u>1520</u>	GCAL Sample ID: <u>21703072004</u>	
Matrix: <u>Solid</u> % Moisture: <u>16.3</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10</u> g	Lab File ID: <u>2170310/sv20a023</u>	
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/09/17</u>	Analysis Date: <u>03/10/17</u> Time: <u>2058</u>	
Prep Batch: <u>605819</u>	Analytical Batch: <u>606154</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	38.2	U	5.20	38.2	59.8
GCSV-05-03	>C28-C35	38.2	U	5.20	38.2	59.8
GCSV-05-01	C6-C12	16.7	U	5.32	16.7	59.8
GCSV-05-04	TOTAL TPH (C6-C35)	38.2	U	5.20	38.2	59.8

FORM I ORG-1

GCAL Report#: 217030720

Pag

10/03/2018

SGS
002484

94 of 1994
ACCUTEST
FA41730

(b) (6)

SDG FA41762

ATTACHMENT 1

CHAIN OF CUSTODY FORMS

(If no box checked use routine)
☒ Routine
☐ Urgent
☐ EMERGENCY

Chain of Custody Number FEIDS02		Project Manager (Print) Mike Bowlby		CAPE Project Manager (Print) Ben Shivar		Laboratory SGS ACCUTEST	
Contractor CAPE		Project Name ER services at Four IRP Sites and Military Munitions Program sites at Fort Bliss		Sampler's Name (Print) Seth Moorehead		Laboratory Contract Number	
ERPIMS Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Site(s) Far East Illegal Dump Site		(b) (6)		ANALYSES REQUESTED	

Sample Number LNNNNNNNN	Station Number LNNNNLNN N	Sample Type (E-21) See VVL	Sample Matrix (E-17) See VVL	Sample Method (E-23) See VVL	Begin Depth NN.N	End Depth NN.N	Date dd mm yy NN LLL NN	Time 24 HR NNNN	Field Lot Number NNNL	Number of Containers N	TCL VOCs (503/8260)	TCL SVOCs (3541/8170)	TAL Metals (6020/7000)	TCL Pesticides (3541/8081)	TCL Herbicides (35508/151)	PCBs (3541/8082)	TPH (1005/006)	SPDS (1005/006)	See Notes
1	FEIDS-TB-02	--	TB-1	WQ	NA	--	03MAR17	0600	001A	2	X								
2	FEIDS-SS5-80-05 Grid 5	N-1	SO	G/CS	0.0	0.5	03MAR17	0815	000A	6	X	X	X	X	X	X	X	X	1
3	FEIDS-SS5-80-06 Grid 6	N-1	SO	G/CS	0.0	0.5	03MAR17	0825	000A	6	X	X	X	X	X	X	X	X	
4	FEIDS-SS7-80-07 Grid 7	N-1	SO	G/CS	0.0	0.5	03MAR17	1055	000A	6	X	X	X	X	X	X	X	X	
5	FEIDS-SS8-80-08 Grid 8	N-1	SO	G/CS	0.0	0.5	03MAR17	1215	000A	6	X	X	X	X	X	X	X	X	
6	FEIDS-SS9-80-09 Grid 9	N-1	SO	G/CS	0.0	0.5	03MAR17	1340	000A	6	X	X	X	X	X	X	X	X	
7	FEIDS-SS10-80-10 Grid 10	N-1	SO	G/CS	0.0	0.5	03MAR17	1455	000A	6	X	X	X	X	X	X	X	X	
8	FEIDS-SS11-80-11 Grid 11	N-1	SO	G	2.0	3.0	03MAR17	1540	000A	6	X	X	X	X	X	X	X	X	

Relinquished By (Signature) (b) (6)	Date/Time 3/3/17 1730	Received By (Signature) Fx	Date/Time 03/04/17 0830
Relinquished By (Signature) Fx	Date/Time	Received By (Signature) (b) (6)	Date/Time

Sample Shipped Via (circle one): UPS <input checked="" type="checkbox"/> FED-EX AIRBORNE BUS HAND OTHER	Waybill Number:	PROTOCOL (circle one) HAZWOP <input checked="" type="checkbox"/> REA OTHER
		QC LEVEL (circle one) 1 2 3 <input checked="" type="checkbox"/> 4 5
		FOR LABORATORY USE ONLY
		CONDITIONS OF SAMPLES UPON RECEIPT
		CHAIN OF CUSTODY Y N ICE
		REQUEST FOR ANAL Y N TEMP
		CUSTODY SEAL Y N pH
		SAMPLE CONDITION 4.2 4.5

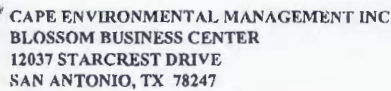
REMARKS (Notes):
1) 15 point multi-incremental soil sample associated with analysis 8270, 6020, 8081, 8151, and 8082 to be sieved and compared to lab.
2)

Run the MATRIX SPIKE / MATRIX SPIKE DUPLICATE on:

FA41762: Chain of Custody

Page 1 of 5

Page 2 of 2



(If no box checked use routine)
☒ Routine
☐ Urgent
☐ EMERGENCY

6.1

Page 2 of 5

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: FA41762 CLIENT: Cape Env. PROJECT: ER Services
DATE/TIME RECEIVED: 03/04/17 930 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 2
METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
AIRBILL NUMBERS: 8113 13910 10440

COOLER INFORMATION

- ☐ CUSTODY SEAL NOT PRESENT OR NOT INTACT
☐ CHAIN OF CUSTODY NOT RECEIVED (COC)
☐ ANALYSIS REQUESTED IS UNCLEAR OR MISSING
☐ SAMPLE DATES OR TIMES UNCLEAR OR MISSING
☐ TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- ☒ TRIP BLANK PROVIDED
☐ TRIP BLANK NOT PROVIDED
☐ TRIP BLANK NOT ON COC
☒ TRIP BLANK INTACT
☐ TRIP BLANK NOT INTACT
☒ RECEIVED WATER TRIP BLANK
☐ RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES? 25-GRAM _____ 5-GRAM _____
NUMBER OF 5035 FIELD KITS? 8
NUMBER OF LAB FILTERED METALS? _____

TEST STRIP LOT#s pH 0-3 230315

pH 10-12 219813A

OTHER (specify) _____

SUMMARY OF COMMENTS: _____

TEMPERATURE INFORMATION

IR THERM ID 1 CORR. FACTOR +0.8
OBSERVED TEMPS: 3.4 3.7
CORRECTED TEMPS: 4.2 4.5 (USED FOR LIMS)

SAMPLE INFORMATION

- ☐ INCORRECT NUMBER OF CONTAINERS USED
☐ SAMPLE RECEIVED IMPROPERLY PRESERVED
☐ INSUFFICIENT VOLUME FOR ANALYSIS
☐ DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
☐ ID'S ON COC DO NOT MATCH LABEL
☐ VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
☐ BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
☐ NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
☐ UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
☐ SAMPLE CONTAINER(S) RECEIVED BROKEN
☐ 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
☐ BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
☐ % SOLIDS JAR NOT RECEIVED
☐ RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE

NF 02/16

3/04/17 REVIEWER SIGNATURE/DATE AD 03-01-17

receipt confirmation 020116.xls

FA41762: Chain of Custody

Page 3 of 5

ATTACHMENT 2

DATA SUMMARY REPORTS



ACCUTEST
Southeast

04/04/17

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

Technical Report for

Cape, Inc

Far East Dump Site, Fort Bliss, TX

SGS Accutest Job Number: FA41762

Sampling Date: 03/03/17

Report to:

Cape, Inc
500 Pinnacle Ct
Norcross, GA 30071
wvermeychuk@cape-inc.com; chemistrysvcs@cape-inc.com

ATTN: Wayne Vermeychuk

Total number of pages in report: 3014



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

(b) (6)

(b) (6)

Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(L-A-B L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.





Sample Summary

Cape, Inc

Job No: FA41762

Far East Dump Site, Fort Bliss, TX

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA41762-1	03/03/17	06:00 SM	03/04/17	AQ	Trip Blank Soil	FEIDS-TB-02
FA41762-2	03/03/17	08:15 SM	03/04/17	SO	Soil	FEIDS-SS5-SO-05
FA41762-2A	03/03/17	08:15 SM	03/04/17	SO	Soil	FEIDS-SS5-SO-05
FA41762-3	03/03/17	09:45 SM	03/04/17	SO	Soil	FEIDS-SS6-SO-06
FA41762-3A	03/03/17	09:45 SM	03/04/17	SO	Soil	FEIDS-SS6-SO-06
FA41762-4	03/03/17	10:55 SM	03/04/17	SO	Soil	FEIDS-SS7-SO-07
FA41762-4A	03/03/17	10:55 SM	03/04/17	SO	Soil	FEIDS-SS7-SO-07
FA41762-5	03/03/17	12:15 SM	03/04/17	SO	Soil	FEIDS-SS8-SO-08
FA41762-5A	03/03/17	12:15 SM	03/04/17	SO	Soil	FEIDS-SS8-SO-08
FA41762-6	03/03/17	13:40 SM	03/04/17	SO	Soil	FEIDS-SS9-SO-09
FA41762-6A	03/03/17	13:40 SM	03/04/17	SO	Soil	FEIDS-SS9-SO-09
FA41762-7	03/03/17	14:55 SM	03/04/17	SO	Soil	FEIDS-SS10-SO-10
FA41762-7A	03/03/17	14:55 SM	03/04/17	SO	Soil	FEIDS-SS10-SO-10

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

Cape, Inc

Job No: FA41762

Far East Dump Site, Fort Bliss, TX

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA41762-8	03/03/17	15:40 SM	03/04/17	SO	Soil	FEIDS-SB1-SO-11
FA41762-8A	03/03/17	15:40 SM	03/04/17	SO	Soil	FEIDS-SB1-SO-11
FA41762-9	03/03/17	16:10 SM	03/04/17	SO	Soil	FEIDS-SB2-SO-12
FA41762-9A	03/03/17	16:10 SM	03/04/17	SO	Soil	FEIDS-SB2-SO-12

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE



Client: Capc, Inc

Job No: FA41762

Site: Far East Dump Site, Fort Bliss, TX

Report Date: 4/4/2017 3:07:41 PM

8 Sample(s), 1 Trip Blank(s) were collected on 03/03/2017 and were received at SGS Accutest Southeast (SASE) on 03/04/2017 properly preserved, at 4.5 Deg. C and intact. These Samples received an SASE job number of FA41762. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

FA41762-2, FA41762-3, FA41762-4, FA41762-5, FA41762-6, FA41762-7, FA41762-8, FA41762-9: Samples air dried prior to analysis; percent solids reported as 100%.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: VA2108

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

VA2108-BS: No MS/MSD available for this run.

Matrix: SO

Batch ID: V2B77

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41773-2MS, FA41773-2MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 2-Butanone (MEK) are outside control limits.

Matrix Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, cis-1,3-Dichloropropene, Hexachlorobutadiene, Isopropylbenzene, n-Butylbenzene, Naphthalene, Styrene, Vinyl Acetate are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Hexachlorobutadiene, Naphthalene, Styrene, Vinyl Acetate are outside control limits. Probable cause is due to matrix interference.

FA41762-2A: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41762-2A for Vinyl Acetate: Associated CCV outside control limits.

FA41762-2A for 2-Butanone (MEK): Associated BS recovery outside control limits.

FA41762-3A for Vinyl Acetate: Associated CCV outside control limits.

FA41762-3A for 2-Butanone (MEK): Associated BS recovery outside control limits.

FA41762-3A: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41762-4A for 2-Butanone (MEK): Associated BS recovery outside control limits.

FA41762-4A for Vinyl Acetate: Associated CCV outside control limits.

FA41762-4A: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41762-5A for 2-Butanone (MEK): Associated BS recovery outside control limits.

FA41762-5A: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41762-5A for Vinyl Acetate: Associated CCV outside control limits.

FA41762-6A for Vinyl Acetate: Associated CCV outside control limits.

FA41762-6A for 2-Butanone (MEK): Associated BS recovery outside control limits.

FA41762-6A: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41762-7A for 2-Butanone (MEK): Associated BS recovery outside control limits.

FA41762-7A for Vinyl Acetate: Associated CCV outside control limits.

FA41762-7A: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41762-8A for 2-Butanone (MEK): Associated BS recovery outside control limits.

FA41762-8A: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41762-8A for Vinyl Acetate: Associated CCV outside control limits.

FA41762-9A: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41762-9A for Vinyl Acetate: Associated CCV outside control limits.

FA41762-9A for 2-Butanone (MEK): Associated BS recovery outside control limits.

Tuesday, April 04, 2017

Page 1 of 9

Extractables by GCMS By Method SW846 8270D

Matrix: SO

Batch ID: OP64104

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41825-IMS, FA41825-IMSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 4-Nitroaniline, Benzidine, Pyridine are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Matrix Spike Duplicate Recovery(s) for 2,6-Dinitrotoluene, Benzidine, Pyridine are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Sample(s) FA41762-8, FA41762-9, OP64104-MB have surrogates outside control limits.

OP64104-MB for Phenol-d5: Outside control limits.

FA41762-8 for Phenol-d5: Outside control limits.

FA41762-9 for Phenol-d5: Outside control limits.

Matrix: SO

Batch ID: OP64194

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41983-7MS, FA41983-7MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 3,3'-Dichlorobenzidine are outside control limits. % Recovery was above upper control limits, but samples were ND for this compound.

Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine, 4-Nitroaniline, Anthracene, Fluoranthene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 4-Nitroaniline, Anthracene, Benzo(k)fluoranthene, Carbazole, Fluoranthene are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for 3,3'-Dichlorobenzidine, Pyrene are outside control limits for sample OP64194-MSD1. Probable cause is due to sample non-homogeneity.

For Sample(s) FA41762-2, FA41762-3, FA41762-4, FA41762-5, FA41762-6, FA41762-7 are associated with an ICV that has a recovery for 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, Benzidine, 3,3'-Dichlorobenzidine outside control limits.

Extractables by GC By Method SW846 8081B

Matrix: SO

Batch ID: OP64125

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41845-IMS, FA41845-IMSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Methoxychlor are outside control limits. % Recovery was above upper control limits, but samples were ND for this compound.

FA41762-8 for Methoxychlor: Associated CCV and BS outside control limits.

FA41762-9 for Methoxychlor: Associated CCV and BS outside control limits.

Matrix: SO

Batch ID: OP64199

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41730-3MS, FA41730-3MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for alpha-BHC, alpha-Chlordane, gamma-Chlordane are outside control limits. % Recoveries were above upper control limits, but samples were ND for these compounds.

Matrix Spike Duplicate Recovery(s) for alpha-Chlordane, gamma-Chlordane are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

FA41762-2 for alpha-BHC: Associated BS recovery outside control limits.

FA41762-2: All hits confirmed by dual column analysis.

FA41762-2 for alpha-Chlordane: Associated BS recovery outside control limits.

FA41762-2 for gamma-Chlordane: Associated BS recovery outside control limits.

Tuesday, April 04, 2017

Page 2 of 9

Extractables by GC By Method SW846 8081B**Matrix:** SO**Batch ID:** OP64199

FA41762-3 for gamma-Chlordane: Associated BS recovery outside control limits.
 FA41762-3 for alpha-Chlordane: Associated BS recovery outside control limits.
 FA41762-3: All hits confirmed by dual column analysis.
 FA41762-3 for alpha-BHC: Associated BS recovery outside control limits.
 FA41762-4 for gamma-Chlordane: Associated BS recovery outside control limits.
 FA41762-4 for alpha-Chlordane: Associated BS recovery outside control limits.
 FA41762-4 for alpha-BHC: Associated BS recovery outside control limits.
 FA41762-4: All hits confirmed by dual column analysis.
 FA41762-6 for gamma-Chlordane: Associated BS recovery outside control limits.
 FA41762-6 for alpha-Chlordane: Associated BS recovery outside control limits.
 FA41762-6 for alpha-BHC: Associated BS recovery outside control limits.
 FA41762-6: All hits confirmed by dual column analysis.
 FA41762-7: All hits confirmed by dual column analysis.
 FA41762-7 for gamma-Chlordane: Associated BS recovery outside control limits.
 FA41762-7 for alpha-BHC: Associated BS recovery outside control limits.
 FA41762-7 for alpha-Chlordane: Associated BS recovery outside control limits.

Extractables by GC By Method SW846 8082A**Matrix:** SO**Batch ID:** OP64110

All samples were extracted within the recommended method holding time.
 All samples were analyzed within the recommended method holding time.
 All method blanks for this batch meet method specific criteria.
 Sample(s) FA41805-2MS, FA41805-2MSD were used as the QC samples indicated.

Matrix: SO**Batch ID:** OP64200

All samples were extracted within the recommended method holding time.
 All samples were analyzed within the recommended method holding time.
 All method blanks for this batch meet method specific criteria.
 Sample(s) FA41730-5MS, FA41730-5MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8151A**Matrix:** SO**Batch ID:** OP64183

All samples were extracted within the recommended method holding time.
 All samples were analyzed within the recommended method holding time.
 All method blanks for this batch meet method specific criteria.
 Sample(s) FA41805-14MS, FA41805-14MSD were used as the QC samples indicated.
 Matrix Spike Recovery(s) for Dicamba, Dichloroprop are outside control limits. Probable cause is due to matrix interference.
 Matrix Spike Duplicate Recovery(s) for Dalapon, Dicamba are outside control limits. Probable cause is due to matrix interference.
 RPD(s) for MSD for Dalapon are outside control limits for sample OP64183-MSD. Probable cause is due to sample non-homogeneity.
 Sample(s) FA41762-8, FA41762-9, OP64183-MS have surrogates outside control limits.
 OP64183-MS for 2,4-DCAA: Outside control limits.
 FA41762-8 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.
 FA41762-9 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

Tuesday, April 04, 2017

Page 3 of 9

Extractables by GC By Method SW846 8151A

Matrix: SO

Batch ID: OP64197

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41730-4MS, FA41730-4MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Dinoseb are outside control limits.

Matrix Spike Recovery(s) for Dicamba, Dinoseb are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Dalapon, Dicamba, Dichloroprop, Dinoseb, Pentachlorophenol are outside control limits. Probable cause is due to matrix interference.

Sample(s) FA41762-2, FA41762-3, FA41762-4, FA41762-5, FA41762-6, FA41762-7, OP64197-MB, OP64197-MS, OP64197-MSD have surrogates outside control limits.

OP64197-MB for 2,4-DCAA: Outside control limits.

OP64197-MS for 2,4-DCAA: Outside control limits.

OP64197-MSD for 2,4-DCAA: Outside control limits.

FA41762-2 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41762-3 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41762-4 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41762-5 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41762-6 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41762-7 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

Matrix: SO

Batch ID: OP64312

FA41762-8: Confirmation run for surrogate recoveries.

FA41762-9: Confirmation run for surrogate recoveries.

Matrix: SO

Batch ID: OP64338

FA41762-2: Confirmation run for surrogate recoveries.

FA41762-3: Confirmation run for surrogate recoveries.

FA41762-4: Confirmation run for surrogate recoveries.

FA41762-5: Confirmation run for surrogate recoveries.

FA41762-6: Confirmation run for surrogate recoveries.

FA41762-7: Confirmation run for surrogate recoveries.

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31807

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41730-2DUP, FA41730-2MS, FA41730-2MSD, FA41730-2PS, FA41730-2SDL were used as the QC samples for metals.

Matrix Spike Recovery(s) for Aluminum, Antimony, Calcium, Iron are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Iron, Manganese, Vanadium are outside control limits.

Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

RPD(s) for Duplicate for Beryllium, Cadmium, Thallium are outside control limits for sample MP31807-D2. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for MSD for Vanadium are outside control limits for sample MP31807-S2. High RPD due to possible sample non-homogeneity.

RPD(s) for Serial Dilution for Antimony, Beryllium, Cadmium, Sodium, Thallium, Zinc are outside control limits for sample MP31807-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Tuesday, April 04, 2017

Page 4 of 9

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31807

MP31807-PS1 for Silver: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP31807-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FA41762-2 for Cadmium: Sample dilution required due to difficult matrix.

FA41762-2 for Vanadium: Sample dilution required due to difficult matrix.

FA41762-3 for Aluminum: Sample dilution required due to difficult matrix.

FA41762-2 for Zinc: Sample dilution required due to difficult matrix.

FA41762-2 for Thallium: Sample dilution required due to difficult matrix.

MP31807-SD1 for Zinc: Serial dilution indicates possible matrix interference.

FA41762-2 for Aluminum: Sample dilution required due to difficult matrix.

FA41762-3 for Antimony: Sample dilution required due to difficult matrix.

FA41762-2 for Silver: Sample dilution required due to difficult matrix.

FA41762-2 for Potassium: Sample dilution required due to difficult matrix.

FA41762-2 for Nickel: Sample dilution required due to difficult matrix.

FA41762-2 for Manganese: Sample dilution required due to difficult matrix.

FA41762-2 for Magnesium: Sample dilution required due to difficult matrix.

FA41762-2 for Lead: Sample dilution required due to difficult matrix.

FA41762-2 for Iron: Sample dilution required due to difficult matrix.

FA41762-2 for Copper: Sample dilution required due to difficult matrix.

FA41762-2 for Cobalt: Sample dilution required due to difficult matrix.

FA41762-2 for Calcium: Sample dilution required due to difficult matrix.

FA41762-2 for Barium: Sample dilution required due to difficult matrix.

FA41762-2 for Sodium: Sample dilution required due to difficult matrix.

FA41762-3 for Arsenic: Sample dilution required due to difficult matrix.

FA41762-2 for Chromium: Sample dilution required due to difficult matrix.

FA41762-5 for Lead: Sample dilution required due to difficult matrix.

FA41762-4 for Magnesium: Sample dilution required due to difficult matrix.

FA41762-4 for Manganese: Sample dilution required due to difficult matrix.

FA41762-4 for Nickel: Sample dilution required due to difficult matrix.

FA41762-4 for Potassium: Sample dilution required due to difficult matrix.

FA41762-4 for Selenium: Sample dilution required due to difficult matrix.

FA41762-4 for Silver: Sample dilution required due to difficult matrix.

FA41762-4 for Sodium: Sample dilution required due to difficult matrix.

FA41762-3 for Chromium: Sample dilution required due to difficult matrix.

FA41762-4 for Vanadium: Sample dilution required due to difficult matrix.

FA41762-8 for Aluminum: Sample dilution required due to difficult matrix.

FA41762-5 for Aluminum: Sample dilution required due to difficult matrix.

FA41762-4 for Copper: Sample dilution required due to difficult matrix.

FA41762-5 for Arsenic: Sample dilution required due to difficult matrix.

FA41762-5 for Barium: Sample dilution required due to difficult matrix.

FA41762-6 for Silver: Sample dilution required due to difficult matrix.

FA41762-5 for Cadmium: Sample dilution required due to difficult matrix.

FA41762-6 for Barium: Sample dilution required due to difficult matrix.

FA41762-5 for Chromium: Sample dilution required due to difficult matrix.

FA41762-4 for Thallium: Sample dilution required due to difficult matrix.

FA41762-9 for Aluminum: Sample dilution required due to difficult matrix.

FA41762-6 for Potassium: Sample dilution required due to difficult matrix.

FA41762-8 for Arsenic: Sample dilution required due to difficult matrix.

FA41762-8 for Beryllium: Sample dilution required due to difficult matrix.

FA41762-8 for Cadmium: Sample dilution required due to difficult matrix.

FA41762-8 for Chromium: Sample dilution required due to difficult matrix.

Tuesday, April 04, 2017

Page 5 of 9

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31807

FA41762-8 for Cobalt: Sample dilution required due to difficult matrix.
FA41762-8 for Copper: Sample dilution required due to difficult matrix.
FA41762-8 for Iron: Sample dilution required due to difficult matrix.
FA41762-5 for Antimony: Sample dilution required due to difficult matrix.
FA41762-8 for Magnesium: Sample dilution required due to difficult matrix.
FA41762-8 for Lead: Sample dilution required due to difficult matrix.
FA41762-8 for Nickel: Sample dilution required due to difficult matrix.
FA41762-8 for Potassium: Sample dilution required due to difficult matrix.
FA41762-8 for Selenium: Sample dilution required due to difficult matrix.
FA41762-8 for Silver: Sample dilution required due to difficult matrix.
FA41762-8 for Sodium: Sample dilution required due to difficult matrix.
FA41762-8 for Thallium: Sample dilution required due to difficult matrix.
FA41762-8 for Vanadium: Sample dilution required due to difficult matrix.
FA41762-5 for Iron: Sample dilution required due to difficult matrix.
FA41762-9 for Antimony: Sample dilution required due to difficult matrix.
FA41762-5 for Beryllium: Sample dilution required due to difficult matrix.
FA41762-5 for Cobalt: Sample dilution required due to difficult matrix.
FA41762-4 for Chromium: Sample dilution required due to difficult matrix.
FA41762-4 for Cobalt: Sample dilution required due to difficult matrix.
FA41762-5 for Calcium: Sample dilution required due to difficult matrix.
FA41762-3 for Thallium: Sample dilution required due to difficult matrix.
FA41762-5 for Silver: Sample dilution required due to difficult matrix.
FA41762-5 for Selenium: Sample dilution required due to difficult matrix.
FA41762-5 for Potassium: Sample dilution required due to difficult matrix.
FA41762-4 for Cadmium: Sample dilution required due to difficult matrix.
FA41762-5 for Manganese: Sample dilution required due to difficult matrix.
FA41762-4 for Beryllium: Sample dilution required due to difficult matrix.
FA41762-5 for Sodium: Sample dilution required due to difficult matrix.
FA41762-5 for Thallium: Sample dilution required due to difficult matrix.
FA41762-5 for Magnesium: Sample dilution required due to difficult matrix.
FA41762-5 for Zinc: Sample dilution required due to difficult matrix.
FA41762-6 for Aluminum: Sample dilution required due to difficult matrix.
FA41762-6 for Antimony: Sample dilution required due to difficult matrix.
FA41762-5 for Vanadium: Sample dilution required due to difficult matrix.
FA41762-6 for Arsenic: Sample dilution required due to difficult matrix.
FA41762-5 for Nickel: Sample dilution required due to difficult matrix.
FA41762-3 for Silver: Sample dilution required due to difficult matrix.
FA41762-9 for Zinc: Sample dilution required due to difficult matrix.
FA41762-4 for Zinc: Sample dilution required due to difficult matrix.
FA41762-3 for Zinc: Sample dilution required due to difficult matrix.
FA41762-3 for Iron: Sample dilution required due to difficult matrix.
FA41762-3 for Lead: Sample dilution required due to difficult matrix.
FA41762-3 for Magnesium: Sample dilution required due to difficult matrix.
FA41762-3 for Manganese: Sample dilution required due to difficult matrix.
FA41762-3 for Nickel: Sample dilution required due to difficult matrix.
FA41762-4 for Calcium: Sample dilution required due to difficult matrix.
FA41762-3 for Selenium: Sample dilution required due to difficult matrix.
FA41762-5 for Copper: Sample dilution required due to difficult matrix.
FA41762-3 for Sodium: Sample dilution required due to difficult matrix.
FA41762-4 for Lead: Sample dilution required due to difficult matrix.
FA41762-3 for Vanadium: Sample dilution required due to difficult matrix.

Tuesday, April 04, 2017

Page 6 of 9

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31807

FA41762-4 for Iron: Sample dilution required due to difficult matrix.
FA41762-4 for Aluminum: Sample dilution required due to difficult matrix.
FA41762-4 for Antimony: Sample dilution required due to difficult matrix.
FA41762-4 for Arsenic: Sample dilution required due to difficult matrix.
FA41762-4 for Barium: Sample dilution required due to difficult matrix.
FA41762-3 for Potassium: Sample dilution required due to difficult matrix.
FA41762-7 for Thallium: Sample dilution required due to difficult matrix.
FA41762-7 for Lead: Sample dilution required due to difficult matrix.
FA41762-7 for Antimony: Sample dilution required due to difficult matrix.
FA41762-7 for Manganese: Sample dilution required due to difficult matrix.
FA41762-7 for Nickel: Sample dilution required due to difficult matrix.
FA41762-7 for Potassium: Sample dilution required due to difficult matrix.
FA41762-7 for Selenium: Sample dilution required due to difficult matrix.
FA41762-6 for Cobalt: Sample dilution required due to difficult matrix.
FA41762-8 for Manganese: Sample dilution required due to difficult matrix.
FA41762-7 for Cobalt: Sample dilution required due to difficult matrix.
FA41762-9 for Lead: Sample dilution required due to difficult matrix.
FA41762-7 for Iron: Sample dilution required due to difficult matrix.
FA41762-6 for Nickel: Sample dilution required due to difficult matrix.
FA41762-6 for Cadmium: Sample dilution required due to difficult matrix.
FA41762-6 for Calcium: Sample dilution required due to difficult matrix.
FA41762-6 for Chromium: Sample dilution required due to difficult matrix.
FA41762-7 for Silver: Sample dilution required due to difficult matrix.
FA41762-3 for Beryllium: Sample dilution required due to difficult matrix.
FA41762-3 for Cadmium: Sample dilution required due to difficult matrix.
FA41762-3 for Calcium: Sample dilution required due to difficult matrix.
FA41762-2 for Selenium: Sample dilution required due to difficult matrix.
FA41762-3 for Cobalt: Sample dilution required due to difficult matrix.
FA41762-2 for Beryllium: Sample dilution required due to difficult matrix.
FA41762-7 for Arsenic: Sample dilution required due to difficult matrix.
FA41762-7 for Copper: Sample dilution required due to difficult matrix.
FA41762-7 for Magnesium: Sample dilution required due to difficult matrix.
FA41762-6 for Beryllium: Sample dilution required due to difficult matrix.
FA41762-7 for Beryllium: Sample dilution required due to difficult matrix.
FA41762-7 for Cadmium: Sample dilution required due to difficult matrix.
FA41762-7 for Calcium: Sample dilution required due to difficult matrix.
FA41762-7 for Chromium: Sample dilution required due to difficult matrix.
FA41762-7 for Vanadium: Sample dilution required due to difficult matrix.
FA41762-2 for Antimony: Sample dilution required due to difficult matrix.
FA41762-9 for Potassium: Sample dilution required due to difficult matrix.
FA41762-9 for Chromium: Sample dilution required due to difficult matrix.
FA41762-9 for Cobalt: Sample dilution required due to difficult matrix.
FA41762-9 for Copper: Sample dilution required due to difficult matrix.
FA41762-9 for Iron: Sample dilution required due to difficult matrix.
FA41762-6 for Copper: Sample dilution required due to difficult matrix.
FA41762-9 for Magnesium: Sample dilution required due to difficult matrix.
FA41762-9 for Cadmium: Sample dilution required due to difficult matrix.
FA41762-9 for Nickel: Sample dilution required due to difficult matrix.
FA41762-7 for Zinc: Sample dilution required due to difficult matrix.

Tuesday, April 04, 2017

Page 7 of 9

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31807

FA41762-9 for Selenium: Sample dilution required due to difficult matrix.
FA41762-9 for Silver: Sample dilution required due to difficult matrix.
FA41762-9 for Sodium: Sample dilution required due to difficult matrix.
FA41762-9 for Thallium: Sample dilution required due to difficult matrix.
FA41762-9 for Vanadium: Sample dilution required due to difficult matrix.
FA41762-3 for Barium: Sample dilution required due to difficult matrix.
FA41762-7 for Sodium: Sample dilution required due to difficult matrix.
FA41762-6 for Sodium: Sample dilution required due to difficult matrix.
FA41762-8 for Zinc: Sample dilution required due to difficult matrix.
FA41762-7 for Barium: Sample dilution required due to difficult matrix.
FA41762-9 for Beryllium: Sample dilution required due to difficult matrix.
FA41762-6 for Lead: Sample dilution required due to difficult matrix.
FA41762-6 for Iron: Sample dilution required due to difficult matrix.
FA41762-8 for Antimony: Sample dilution required due to difficult matrix.
FA41762-6 for Manganese: Sample dilution required due to difficult matrix.
FA41762-6 for Selenium: Sample dilution required due to difficult matrix.
FA41762-2 for Arsenic: Sample dilution required due to difficult matrix.
FA41762-6 for Thallium: Sample dilution required due to difficult matrix.
FA41762-6 for Vanadium: Sample dilution required due to difficult matrix.
FA41762-6 for Zinc: Sample dilution required due to difficult matrix.
FA41762-7 for Aluminum: Sample dilution required due to difficult matrix.
FA41762-6 for Magnesium: Sample dilution required due to difficult matrix.
FA41762-9 for Manganese: Sample dilution required due to difficult matrix.
FA41762-9 for Arsenic: Sample dilution required due to difficult matrix.
FA41762-3 for Copper: Sample dilution required due to difficult matrix.

Metals By Method SW846 7471B

Matrix: SO

Batch ID: MP31783

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA41687-5DUP, FA41687-5MS, FA41687-5MSD, FA41687-5SDL were used as the QC samples for metals.
RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP31783-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO

Batch ID: MP31803

All samples were digested within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA41730-2DUP, FA41730-2MS, FA41730-2MSD, FA41730-2SDL were used as the QC samples for metals.
RPD(s) for Duplicate for Mercury are outside control limits for sample MP31803-ID2. RPD acceptable due to low duplicate and sample concentrations.
RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP31803-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SM19 2540G

Matrix: SO

Batch ID: GN74313

Sample(s) FA41831-1DUP were used as the QC samples for Solids, Percent.

Tuesday, April 04, 2017

Page 8 of 9

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.



Narrative prepared by:

Kim Benham, Client Services (signature on file)

Date April 4, 2017

Tuesday, April 04, 2017

Page 9 of 9

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID:	FEIDS-TB-02	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-1	Date Received:	03/04/17
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0205762.D	1	03/07/17	TD	n/a	n/a	VA2108
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
108-86-1	Bromobenzene	0.50 U	1.0	0.50	0.37	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
104-51-8	n-Butylbenzene	0.50 U	1.0	0.50	0.23	ug/l	
135-98-8	sec-Butylbenzene	0.50 U	1.0	0.50	0.24	ug/l	
98-06-6	tert-Butylbenzene	0.50 U	1.0	0.50	0.31	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
95-49-8	o-Chlorotoluene	0.50 U	1.0	0.50	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.50 U	1.0	0.50	0.31	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
142-28-9	1,3-Dichloropropane	0.50 U	1.0	0.50	0.31	ug/l	
594-20-7	2,2-Dichloropropane	0.50 U	1.0	0.50	0.24	ug/l	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FEIDS-TB-02	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-1	Date Received:	03/04/17
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	0.50 U	1.0	0.50	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	2.0	1.0	0.30	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
99-87-6	p-Isopropyltoluene	0.50 U	1.0	0.50	0.21	ug/l	
74-83-9	Methyl Bromide	1.0 U	2.0	1.0	0.59	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
74-95-3	Methylene Bromide	0.50 U	2.0	0.50	0.37	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.50 U	1.0	0.50	0.29	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.70	1.0	0.50	0.30	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	2.0	1.0	0.63	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	1.0	0.50	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	1.0	0.50	0.27	ug/l	
108-05-4	Vinyl Acetate	5.0 U	10	5.0	2.0	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	95%		79-125%
2037-26-5	Toluene-D8	101%		85-112%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-TB-02
Lab Sample ID: FA41762-1
Matrix: AQ - Trip Blank Soil
Method: SW846 8260B
Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17
Date Received: 03/04/17
Percent Solids: n/a

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		83-118%

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID:	FEIDS-SS5-SO-05	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-2A	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	97.5
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2285.D	1	03/04/17	SP	n/a	n/a	V2B77
Run #2							

Run #	Initial Weight	Final Volume
Run #1	6.95 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	18 U ^J	37	18	7.4	ug/kg	
71-43-2	Benzene	1.5 U	3.7	1.5	0.90	ug/kg	
108-86-1	Bromobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
74-97-5	Bromochloromethane	1.5 U	3.7	1.5	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.5 U	3.7	1.5	0.74	ug/kg	
75-25-2	Bromoform	1.5 U	3.7	1.5	0.74	ug/kg	
78-93-3	2-Butanone (MEK) ^b	11 U	18	11	5.4	ug/kg	
104-51-8	n-Butylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
135-98-8	sec-Butylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
98-06-6	tert-Butylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
75-15-0	Carbon Disulfide	1.5 U	3.7	1.5	0.74	ug/kg	
56-23-5	Carbon Tetrachloride	1.5 U	3.7	1.5	0.75	ug/kg	
108-90-7	Chlorobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
75-00-3	Chloroethane	2.6 U	3.7	2.6	1.5	ug/kg	
67-66-3	Chloroform	1.5 U	3.7	1.5	0.98	ug/kg	
95-49-8	o-Chlorotoluene	1.5 U	3.7	1.5	0.74	ug/kg	
106-43-4	p-Chlorotoluene	1.5 U	3.7	1.5	0.74	ug/kg	
124-48-1	Dibromochloromethane	1.5 U	3.7	1.5	0.74	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.6 U	3.7	2.6	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.5 U	3.7	1.5	0.74	ug/kg	
75-71-8	Dichlorodifluoromethane	2.6 U	3.7	2.6	1.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.5 U	3.7	1.5	0.85	ug/kg	
75-34-3	1,1-Dichloroethane	1.5 U	3.7	1.5	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
75-35-4	1,1-Dichloroethylene	1.5 U	3.7	1.5	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.5 U	3.7	1.5	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.5 U	3.7	1.5	0.74	ug/kg	
78-87-5	1,2-Dichloropropane	1.5 U	3.7	1.5	0.74	ug/kg	
142-28-9	1,3-Dichloropropane	1.5 U	3.7	1.5	0.74	ug/kg	
594-20-7	2,2-Dichloropropane	1.5 U ^N	3.7	1.5	0.74	ug/kg	

U = Not detected LOD = Limit of Detection

LOQ = Limit of Quantitation DL = Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Client Sample ID: FEIDS-SS5-SO-05
 Lab Sample ID: FA41762-2A
 Matrix: SO - Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: 97.5

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.5 U J	3.7	1.5	0.75	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.5 U	3.7	1.5	0.74	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.5 U	3.7	1.5	0.74	ug/kg	
100-41-4	Ethylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
87-68-3	Hexachlorobutadiene	1.5 U	3.7	1.5	0.95	ug/kg	
591-78-6	2-Hexanone	11 U	18	11	5.5	ug/kg	
98-82-8	Isopropylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
99-87-6	p-Isopropyltoluene	1.5 U	3.7	1.5	0.74	ug/kg	
74-83-9	Methyl Bromide	2.6 U	3.7	2.6	1.5	ug/kg	
74-87-3	Methyl Chloride	2.6 U	3.7	2.6	1.5	ug/kg	
74-95-3	Methylene Bromide	1.5 U	3.7	1.5	0.74	ug/kg	
75-09-2	Methylene Chloride	3.7 U	7.4	3.7	3.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	11 U	18	11	5.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.5 U	3.7	1.5	0.74	ug/kg	
91-20-3	Naphthalene	2.6 U	3.7	2.6	1.5	ug/kg	
103-65-1	n-Propylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
100-42-5	Styrene	1.5 U	3.7	1.5	0.74	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.5 U	3.7	1.5	0.76	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
127-18-4	Tetrachloroethylene	1.5 U	3.7	1.5	0.94	ug/kg	
108-88-3	Toluene	1.5 U	3.7	1.5	0.74	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.6 U	3.7	2.6	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.6 U	3.7	2.6	0.74	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
79-01-6	Trichloroethylene	1.5 U	3.7	1.5	0.74	ug/kg	
75-69-4	Trichlorofluoromethane	2.6 U	3.7	2.6	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.6 U	3.7	2.6	0.92	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
108-05-4	Vinyl Acetate ^c	15 U	18	15	12	ug/kg	
75-01-4	Vinyl Chloride	1.5 U	3.7	1.5	0.74	ug/kg	
	m,p-Xylene	3.0 U	7.4	3.0	0.81	ug/kg	
95-47-6	o-Xylene	1.5 U	3.7	1.5	0.74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		75-124%
17060-07-0	1,2-Dichloroethane-D4	108%		72-135%
2037-26-5	Toluene-D8	100%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS5-SO-05
Lab Sample ID: FA41762-2A
Matrix: SO - Soil
Method: SW846 8260B
Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17
Date Received: 03/04/17
Percent Solids: 97.5

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		71-133%

- (a) Pre-weighed vials were altered in the field; sample weights are estimated.
(b) Associated BS recovery outside control limits.
(c) Associated CCV outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS5-SO-05

Lab Sample ID: FA41762-2

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X053081.D	1	03/24/17	NG	03/16/17	OP64194	SX2247
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	830	330	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	170	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	170	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	170	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	66 U	170	66	44	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	830	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	66	ug/kg	
95-48-7	2-Methylphenol	33 U	170	33	20	ug/kg	
	3&4-Methylphenol	66 U	170	66	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	170	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	830	330	170	ug/kg	
87-86-5	Pentachlorophenol	330 U	830	330	170	ug/kg	
108-95-2	Phenol	33 U	170	33	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	170	33	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	170	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	170	33	18	ug/kg	
208-96-8	Acenaphthylene	33 U	170	33	17	ug/kg	
62-53-3	Aniline	66 U	170	66	35	ug/kg	
120-12-7	Anthracene	33 U	170	33	19	ug/kg	
92-87-5	Benzidine ^b	830 U ^J	1700	830	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	170	33	17	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	170	33	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	170	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	170	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	170	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	170	33	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	170	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	66 U	170	66	33	ug/kg	
86-74-8	Carbazole	33 U	170	33	23	ug/kg	
106-47-8	4-Chloroaniline ^b	66 U ^J	170	66	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	170	33	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SS5-SO-05	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-2	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	170	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	170	33	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	170	33	17	ug/kg	
218-01-9	Chrysene	33 U	170	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	170	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	170	33	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	66 U	170	66	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	66 U	170	66	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	66 U	170	66	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine ^b	66 U J	170	66	39	ug/kg	
84-66-2	Diethyl Phthalate	120 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	66 U	170	66	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	66 U	170	66	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	170	33	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	170	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	170	33	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	170	33	17	ug/kg	
86-73-7	Fluorene	33 U	170	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	170	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	66 U	170	66	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	66 U	170	66	33	ug/kg	
67-72-1	Hexachloroethane	66 U	170	66	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	170	33	20	ug/kg	
78-59-1	Isophorone	33 U	170	33	17	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-20-3	Naphthalene	33 U	170	33	17	ug/kg	
88-74-4	2-Nitroaniline	66 U	170	66	38	ug/kg	
99-09-2	3-Nitroaniline ^b	66 U J	170	66	19	ug/kg	
100-01-6	4-Nitroaniline	66 U	170	66	48	ug/kg	
98-95-3	Nitrobenzene	33 U	170	33	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	66 U	170	66	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	170	33	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	66 U	170	66	18	ug/kg	
85-01-8	Phenanthrene	33 U	170	33	17	ug/kg	
129-00-0	Pyrene	33 U	170	33	19	ug/kg	
110-86-1	Pyridine	120 U	330	120	66	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	170	33	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS5-SO-05	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-2	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	81%		40-102%
4165-62-2	Phenol-d5	83%		41-100%
118-79-6	2,4,6-Tribromophenol	89%		42-108%
4165-60-0	Nitrobenzene-d5	87%		40-105%
321-60-8	2-Fluorobiphenyl	87%		43-107%
1718-51-0	Terphenyl-d14	85%		45-119%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Associated ICV outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS5-SO-05

Lab Sample ID: FA41762-2

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8151A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053915.D	1	03/21/17	MG	03/16/17	OP64197	GCC1114
Run #2 ^b	CC054034.D	1	03/27/17	MG	03/26/17	OP64338	GCC1117

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2	15.4 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	16 U ^J	33	16	8.4	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.6 U	3.3	1.6	0.92	ug/kg	
93-76-5	2,4,5-T	1.6 U	3.3	1.6	0.84	ug/kg	
1918-00-9	Dicamba	1.6 U	3.3	1.6	0.76	ug/kg	
88-85-7	Dinoseb	33 U	82	33	16	ug/kg	
75-99-0	Dalapon	65 U	160	65	33	ug/kg	
120-36-5	Dichloroprop	16 U	33	16	8.1	ug/kg	
94-82-6	2,4-DB	16 U	33	16	8.5	ug/kg	
93-65-2	MCP	1600 U	3300	1600	840	ug/kg	
94-74-6	MCPA	2500 U	3300	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.6 U	3.3	1.6	0.69	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^c	97%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS5-SO-05

Lab Sample ID: FA41762-2

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8081B SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	TT381483.D	1	03/22/17	MV	03/16/17	OP64199	GTT1929
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.83 U	1.7	0.83	0.53	ug/kg	
319-84-6	alpha-BHC ^c	0.83 U	1.7	0.83	0.53	ug/kg	
319-85-7	beta-BHC	0.83 U	1.7	0.83	0.49	ug/kg	
319-86-8	delta-BHC	0.83 U	1.7	0.83	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.83 U	1.7	0.83	0.50	ug/kg	
5103-71-9	alpha-Chlordane ^c	0.83 U	1.7	0.83	0.52	ug/kg	
5103-74-2	gamma-Chlordane ^c	0.83 U	1.7	0.83	0.48	ug/kg	
60-57-1	Dieldrin	0.83 U	1.7	0.83	0.47	ug/kg	
72-54-8	4,4'-DDD	0.83 U	3.3	0.83	0.46	ug/kg	
72-55-9	4,4'-DDE	0.83 U	3.3	0.83	0.61	ug/kg	
50-29-3	4,4'-DDT	1.2	3.3	0.83	0.51	ug/kg	J
72-20-8	Endrin	1.7 U	3.3	1.7	0.84	ug/kg	
1031-07-8	Endosulfan sulfate	0.83 U	3.3	0.83	0.44	ug/kg	
7421-93-4	Endrin aldehyde	1.9	3.3	0.83	0.39	ug/kg	J
53494-70-5	Endrin ketone	0.83 U	3.3	0.83	0.52	ug/kg	
959-98-8	Endosulfan-I	0.83 U	1.7	0.83	0.38	ug/kg	
33213-65-9	Endosulfan-II	0.83 U	1.7	0.83	0.39	ug/kg	
76-44-8	Heptachlor	0.83 U	1.7	0.83	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	0.83 U	1.7	0.83	0.49	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.3	1.7	0.67	ug/kg	
8001-35-2	Toxaphene	42 U	83	42	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%		50-122%
2051-24-3	Decachlorobiphenyl	102%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) All hits confirmed by dual column analysis.

(c) Associated BS recovery outside control limits.

U = Not detected LOD = Limit of Detection

LOQ = Limit of Quantitation DL = Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS5-SO-05

Lab Sample ID: FA41762-2

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8082A SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39841.D	1	03/20/17	NJ	03/16/17	OP64200	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.7	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.3	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.3	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.7	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.7	ug/kg	
11097-69-1	Aroclor 1254	12 U ^J	17	12	6.7	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		44-126%
2051-24-3	Decachlorobiphenyl	95%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected LOD = Limit of Detection

LOQ = Limit of Quantitation DL = Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID:	FEIDS-SS5-SO-05	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-2	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Project:	Far East Dump Site, Fort Bliss, TX		

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	4670	46	12	2.0	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^b	0.091 J	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^b	1.6	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^b	33.5	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^b	0.23 J	0.46	0.23	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^b	0.13 J	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^b	3210	46	23	3.3	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^b	4.5	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^b	1.5	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^b	4.6	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^b	4610	46	12	3.7	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^b	5.9	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^b	1260	46	23	2.4	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^b	60.2	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.010 J	0.040	0.016	0.0040	mg/kg	1	03/17/17	03/17/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^b	3.6	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^b	1210	46	23	3.0	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^b	1.9	0.46	0.23	0.083	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^b	0.23 U	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^b	22.9 J	46	23	2.2	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^b	0.052 J	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^b	6.8	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^b	23.2 J	0.46	0.23	0.13	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13902

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31803

(4) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS6-SO-06

Lab Sample ID: FA41762-3A

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8260B

Percent Solids: 97.7

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2286.D	1	03/04/17	SP	n/a	n/a	V2B77
Run #2							

	Initial Weight	Final Volume
Run #1	7.36 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	17 U ^J	35	17	7.0	ug/kg	
71-43-2	Benzene	1.4 U	3.5	1.4	0.85	ug/kg	
108-86-1	Bromobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
74-97-5	Bromochloromethane	1.4 U	3.5	1.4	1.0	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	3.5	1.4	0.70	ug/kg	
75-25-2	Bromoform	1.4 U	3.5	1.4	0.70	ug/kg	
78-93-3	2-Butanone (MEK) ^b	10 U	17	10	5.1	ug/kg	
104-51-8	n-Butylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
135-98-8	sec-Butylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
98-06-6	tert-Butylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
75-15-0	Carbon Disulfide	1.4 U	3.5	1.4	0.70	ug/kg	
56-23-5	Carbon Tetrachloride	1.4 U	3.5	1.4	0.71	ug/kg	
108-90-7	Chlorobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
75-00-3	Chloroethane	2.4 U	3.5	2.4	1.4	ug/kg	
67-66-3	Chloroform	1.4 U	3.5	1.4	0.92	ug/kg	
95-49-8	o-Chlorotoluene	1.4 U	3.5	1.4	0.70	ug/kg	
106-43-4	p-Chlorotoluene	1.4 U	3.5	1.4	0.70	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	3.5	1.4	0.70	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.4 U	3.5	2.4	1.3	ug/kg	
106-93-4	1,2-Dibromoethane	1.4 U	3.5	1.4	0.70	ug/kg	
75-71-8	Dichlorodifluoromethane	2.4 U	3.5	2.4	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.4 U	3.5	1.4	0.80	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.5	1.4	1.2	ug/kg	
107-06-2	1,2-Dichloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	3.5	1.4	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	3.5	1.4	0.96	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	3.5	1.4	0.70	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	3.5	1.4	0.70	ug/kg	
142-28-9	1,3-Dichloropropane	1.4 U	3.5	1.4	0.70	ug/kg	
594-20-7	2,2-Dichloropropane	1.4 U ^J	3.5	1.4	0.70	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range




N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Client Sample ID:	FEIDS-SS6-SO-06	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-3A	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	97.7
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.4 U 	3.5	1.4	0.71	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	3.5	1.4	0.70	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	3.5	1.4	0.70	ug/kg	
100-41-4	Ethylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
87-68-3	Hexachlorohutadiene	1.4 U	3.5	1.4	0.90	ug/kg	
591-78-6	2-Hexanone	10 U	17	10	5.2	ug/kg	
98-82-8	Isopropylbenzene	0.78	3.5	1.4	0.70	ug/kg	J
99-87-6	p-Isopropyltoluene	1.4 U 	3.5	1.4	0.70	ug/kg	
74-83-9	Methyl Bromide	2.4 U	3.5	2.4	1.4	ug/kg	
74-87-3	Methyl Chloride	2.4 U	3.5	2.4	1.4	ug/kg	
74-95-3	Methylene Bromide	1.4 U	3.5	1.4	0.70	ug/kg	
75-09-2	Methylene Chloride	3.5 U	7.0	3.5	2.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	17	10	5.2	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.4 U	3.5	1.4	0.70	ug/kg	
91-20-3	Naphthalene	2.4 U	3.5	2.4	1.4	ug/kg	
103-65-1	n-Propylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
100-42-5	Styrene	1.4 U	3.5	1.4	0.70	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.4 U	3.5	1.4	0.72	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	3.5	1.4	0.89	ug/kg	
108-88-3	Toluene	1.4 U	3.5	1.4	0.70	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.4 U	3.5	2.4	0.97	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.4 U	3.5	2.4	0.70	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
79-01-6	Trichloroethylene	1.4 U	3.5	1.4	0.70	ug/kg	
75-69-4	Trichlorofluoromethane	2.4 U	3.5	2.4	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.4 U	3.5	2.4	0.87	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
108-05-4	Vinyl Acetate ^c	14 U	17	14	11	ug/kg	
75-01-4	Vinyl Chloride	1.4 U	3.5	1.4	0.70	ug/kg	
	m,p-Xylene	2.8 U	7.0	2.8	0.76	ug/kg	
95-47-6	o-Xylene	1.4 U 	3.5	1.4	0.70	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		75-124%
17060-07-0	1,2-Dichloroethane-D4	111%		72-135%
2037-26-5	Toluene-D8	101%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS6-SO-06	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-3A	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	97.7
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		71-133%

- (a) Pre-weighed vials were altered in the field; sample weights are estimated.
(b) Associated BS recovery outside control limits.
(c) Associated CCV outside control limits.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range NI = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS6-SO-06

Lab Sample ID: FA41762-3

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X053082.D	1	03/25/17	NG	03/16/17	OP64194	SX2247
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	820	330	160	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	160	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	160	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	160	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	66 U	160	66	44	ug/kg	
51-28-5	2,4-Dinitrophenol	490 U	820	490	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	66	ug/kg	
95-48-7	2-Methylphenol	33 U	160	33	20	ug/kg	
	3&4-Methylphenol	66 U	160	66	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	160	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	820	330	160	ug/kg	
87-86-5	Pentachlorophenol	330 U	820	330	160	ug/kg	
108-95-2	Phenol	33 U	160	33	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	160	33	26	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	160	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	160	33	17	ug/kg	
208-96-8	Acenaphthylene	33 U	160	33	16	ug/kg	
62-53-3	Aniline	66 U	160	66	35	ug/kg	
120-12-7	Anthracene	33 U	160	33	18	ug/kg	
92-87-5	Benzidine ^b	820 U ^J	1600	820	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	160	33	16	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	160	33	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	160	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	160	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	160	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	160	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	160	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	66 U	160	66	33	ug/kg	
86-74-8	Carbazole	33 U	160	33	23	ug/kg	
106-47-8	4-Chloroaniline ^b	66 U ^J	160	66	41	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	160	33	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	160	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SS6-SO-06	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-3	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	160	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	160	33	16	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	160	33	16	ug/kg	
218-01-9	Chrysene	33 U	160	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	160	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	160	33	16	ug/kg	
95-50-1	1,2-Dichlorobenzene	66 U	160	66	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	66 U	160	66	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	66 U	160	66	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine ^b	66 U J	160	66	39	ug/kg	
84-66-2	Diethyl Phthalate	120 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	66 U	160	66	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	66 U	160	66	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	160	33	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	160	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	160	33	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	160	33	16	ug/kg	
86-73-7	Fluorene	33 U	160	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	160	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	66 U	160	66	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	66 U	160	66	33	ug/kg	
67-72-1	Hexachloroethane	66 U	160	66	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	160	33	20	ug/kg	
78-59-1	Isophorone	33 U	160	33	16	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	160	33	16	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	160	33	16	ug/kg	
91-20-3	Naphthalene	33 U	160	33	16	ug/kg	
88-74-4	2-Nitroaniline	66 U	160	66	38	ug/kg	
99-09-2	3-Nitroaniline ^b	66 U J	160	66	19	ug/kg	
100-01-6	4-Nitroaniline	66 U	160	66	47	ug/kg	
98-95-3	Nitrobenzene	33 U	160	33	16	ug/kg	
62-75-9	N-Nitrosodimethylamine	66 U	160	66	27	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	160	33	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	66 U	160	66	18	ug/kg	
85-01-8	Phenanthrene	33 U	160	33	16	ug/kg	
129-00-0	Pyrene	33 U	160	33	19	ug/kg	
110-86-1	Pyridine	120 U	330	120	66	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	160	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS6-SO-06	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-3	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	80%		40-102%
4165-62-2	Phenol-d5	84%		41-100%
118-79-6	2,4,6-Tribromophenol	85%		42-108%
4165-60-0	Nitrobenzene-d5	89%		40-105%
321-60-8	2-Fluorobiphenyl	87%		43-107%
1718-51-0	Terphenyl-d14	83%		45-119%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Associated ICV outside control limits.

U = Not detected	LOD = Limit of Detection	J = Indicates an estimated value
LOQ = Limit of Quantitation	DL = Detection Limit	B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS6-SO-06

Lab Sample ID: FA41762-3

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8151A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053916.D	1	03/21/17	MG	03/16/17	OP64197	GCC1114
Run #2 ^b	CC054035.D	1	03/27/17	MG	03/26/17	OP64338	GCC1117

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2	14.8 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	16 U ^J	32	16	8.3	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.6 U	3.2	1.6	0.91	ug/kg	
93-76-5	2,4,5-T	1.6 U	3.2	1.6	0.84	ug/kg	
1918-00-9	Dicamba	1.6 U	3.2	1.6	0.76	ug/kg	
88-85-7	Dinoseb	32 U	81	32	16	ug/kg	
75-99-0	Dalapon	65 U	160	65	32	ug/kg	
120-36-5	Dichloroprop	16 U	32	16	8.1	ug/kg	
94-82-6	2,4-DB	16 U	32	16	8.4	ug/kg	
93-65-2	MCPP	1600 U	3200	1600	830	ug/kg	
94-74-6	MCPA	2400 U	3200	2400	1600	ug/kg	
87-86-5	Pentachlorophenol	1.6 U	3.2	1.6	0.69	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	5% ^c	96%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS6-SO-06

Lab Sample ID: FA41762-3

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8081B SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	TT381484.D	1	03/22/17	MV	03/16/17	OP64199	GTT1929
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.83 U	1.7	0.83	0.53	ug/kg	
319-84-6	alpha-BHC ^c	0.83 U	1.7	0.83	0.53	ug/kg	
319-85-7	beta-BHC	0.83 U	1.7	0.83	0.49	ug/kg	
319-86-8	delta-BHC	0.83 U	1.7	0.83	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.83 U	1.7	0.83	0.50	ug/kg	
5103-71-9	alpha-Chlordane ^c	0.83 U	1.7	0.83	0.52	ug/kg	
5103-74-2	gamma-Chlordane ^c	0.83 U	1.7	0.83	0.48	ug/kg	
60-57-1	Dieldrin	0.83 U	1.7	0.83	0.47	ug/kg	
72-54-8	4,4'-DDD	0.83 U	3.3	0.83	0.46	ug/kg	
72-55-9	4,4'-DDE	0.83 U	3.3	0.83	0.61	ug/kg	
50-29-3	4,4'-DDT	0.83 U	3.3	0.83	0.51	ug/kg	
72-20-8	Endrin	1.7 U	3.3	1.7	0.84	ug/kg	
1031-07-8	Endosulfan sulfate	0.83 U	3.3	0.83	0.44	ug/kg	
7421-93-4	Endrin aldehyde	1.1	3.3	0.83	0.39	ug/kg	J
53494-70-5	Endrin ketone	0.83 U	3.3	0.83	0.52	ug/kg	
959-98-8	Endosulfan-I	0.83 U	1.7	0.83	0.38	ug/kg	
33213-65-9	Endosulfan-II	0.83 U	1.7	0.83	0.39	ug/kg	
76-44-8	Heptachlor	0.83 U	1.7	0.83	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	0.83 U	1.7	0.83	0.49	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.3	1.7	0.67	ug/kg	
8001-35-2	Toxaphene	42 U	83	42	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		50-122%
2051-24-3	Decachlorobiphenyl	96%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) All hits confirmed by dual column analysis.

(c) Associated BS recovery outside control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS6-SO-06
 Lab Sample ID: FA41762-3
 Matrix: SO - Soil
 Method: SW846 8082A SW846 3550C
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17
 Date Received: 03/04/17
 Percent Solids: n/a ^a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39842.D	1	03/20/17	NJ	03/16/17	OP64200	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.7	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.3	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.3	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.7	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.7	ug/kg	
11097-69-1	Aroclor 1254	12 U J	17	12	6.7	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		44-126%
2051-24-3	Decachlorobiphenyl	92%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
 LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS6-SO-06

Lab Sample ID: FA41762-3

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: n/a ^a

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	5970	50	13	2.2	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^b	0.079 J	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^b	2.1	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^b	48.0	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^b	0.32 J	0.50	0.25	0.054	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^b	0.071 J	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^b	9640	50	25	3.6	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^b	5.8	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^b	1.9	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^b	3.5	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^b	5990	50	13	4.0	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^b	5.2	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^b	1680	50	25	2.6	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^b	73.1	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.0098 J	0.039	0.016	0.0039	mg/kg	1	03/17/17	03/17/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^b	4.6	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^b	1450	50	25	3.3	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^b	2.2	0.50	0.25	0.090	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^b	0.25 U	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^b	31.9 J	50	25	2.4	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^b	0.066 J	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^b	9.4	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^b	17.4 J	0.50	0.25	0.15	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13902

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31803

(4) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result ≥ DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS7-SO-07

Lab Sample ID: FA41762-4A

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8260B

Percent Solids: 98.7

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2287.D	1	03/04/17	SP	n/a	n/a	V2B77
Run #2							

Run #	Initial Weight	Final Volume
Run #1	7.20 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	18 U J	35	18	7.0	ug/kg	
71-43-2	Benzene	1.4 U	3.5	1.4	0.86	ug/kg	
108-86-1	Bromobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
74-97-5	Bromochloromethane	1.4 U	3.5	1.4	1.0	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	3.5	1.4	0.70	ug/kg	
75-25-2	Bromoform	1.4 U	3.5	1.4	0.70	ug/kg	
78-93-3	2-Butanone (MEK) ^b	11 U	18	11	5.1	ug/kg	
104-51-8	n-Butylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
135-98-8	sec-Butylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
98-06-6	tert-Butylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
75-15-0	Carbon Disulfide	1.4 U	3.5	1.4	0.70	ug/kg	
56-23-5	Carbon Tetrachloride	1.4 U	3.5	1.4	0.72	ug/kg	
108-90-7	Chlorobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
75-00-3	Chloroethane	2.5 U	3.5	2.5	1.4	ug/kg	
67-66-3	Chloroform	1.4 U	3.5	1.4	0.94	ug/kg	
95-49-8	o-Chlorotoluene	1.4 U	3.5	1.4	0.70	ug/kg	
106-43-4	p-Chlorotoluene	1.4 U	3.5	1.4	0.70	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	3.5	1.4	0.70	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.5 U	3.5	2.5	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.4 U	3.5	1.4	0.70	ug/kg	
75-71-8	Dichlorodifluoromethane	2.5 U	3.5	2.5	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.4 U	3.5	1.4	0.81	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.5	1.4	1.2	ug/kg	
107-06-2	1,2-Dichloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	3.5	1.4	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	3.5	1.4	0.97	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	3.5	1.4	0.70	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	3.5	1.4	0.70	ug/kg	
142-28-9	1,3-Dichloropropane	1.4 U	3.5	1.4	0.70	ug/kg	
594-20-7	2,2-Dichloropropane	1.4 U	3.5	1.4	0.70	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS

Report of Analysis

Client Sample ID: FEIDS-SS7-SO-07

Lab Sample ID: FA41762-4A

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8260B

Percent Solids: 98.7

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.4 U J	3.5	1.4	0.72	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	3.5	1.4	0.70	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	3.5	1.4	0.70	ug/kg	
100-41-4	Ethylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
87-68-3	Hexachlorobutadiene	1.4 U	3.5	1.4	0.91	ug/kg	
591-78-6	2-Hexanone	11 U	18	11	5.3	ug/kg	
98-82-8	Isopropylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
99-87-6	p-Isopropyltoluene	1.4 U	3.5	1.4	0.70	ug/kg	
74-83-9	Methyl Bromide	2.5 U	3.5	2.5	1.4	ug/kg	
74-87-3	Methyl Chloride	2.5 U	3.5	2.5	1.4	ug/kg	
74-95-3	Methylene Bromide	1.4 U	3.5	1.4	0.70	ug/kg	
75-09-2	Methylene Chloride	3.5 U	7.0	3.5	2.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	11 U	18	11	5.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.4 U	3.5	1.4	0.70	ug/kg	
91-20-3	Naphthalene	2.5 U	3.5	2.5	1.4	ug/kg	
103-65-1	n-Propylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
100-42-5	Styrene	1.4 U	3.5	1.4	0.70	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.4 U	3.5	1.4	0.72	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	3.5	1.4	0.90	ug/kg	
108-88-3	Toluene	1.4 U	3.5	1.4	0.70	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	3.5	2.5	0.99	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	3.5	2.5	0.70	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
79-01-6	Trichloroethylene	1.4 U	3.5	1.4	0.70	ug/kg	
75-69-4	Trichlorofluoromethane	2.5 U	3.5	2.5	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.5 U	3.5	2.5	0.88	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
108-05-4	Vinyl Acetate ^c	14 U	18	14	12	ug/kg	
75-01-4	Vinyl Chloride	1.4 U	3.5	1.4	0.70	ug/kg	
	m,p-Xylene	2.8 U	7.0	2.8	0.77	ug/kg	
95-47-6	o-Xylene	1.4 U	3.5	1.4	0.70	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		75-124%
17060-07-0	1,2-Dichloroethane-D4	109%		72-135%
2037-26-5	Toluene-D8	99%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS7-SO-07

Lab Sample ID: FA41762-4A

Matrix: SO - Soil

Method: SW846 8260B

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: 98.7

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

(b) Associated BS recovery outside control limits.

(c) Associated CCV outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS7-SO-07

Lab Sample ID: FA41762-4

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X053083.D	1	03/25/17	NG	03/16/17	OP64194	SX2247
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	830	330	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	170	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	170	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	170	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	66 U	170	66	44	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	830	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	66	ug/kg	
95-48-7	2-Methylphenol	33 U	170	33	20	ug/kg	
	3&4-Methylphenol	66 U	170	66	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	170	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	830	330	170	ug/kg	
87-86-5	Pentachlorophenol	330 U	830	330	170	ug/kg	
108-95-2	Phenol	33 U	170	33	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	170	33	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	170	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	170	33	18	ug/kg	
208-96-8	Acenaphthylene	33 U	170	33	17	ug/kg	
62-53-3	Aniline	66 U	170	66	35	ug/kg	
120-12-7	Anthracene	33 U	170	33	19	ug/kg	
92-87-5	Benzidine ^b	830 U J	1700	830	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	170	33	17	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	170	33	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	170	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	170	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	170	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	170	33	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	170	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	66 U	170	66	33	ug/kg	
86-74-8	Carbazole	33 U	170	33	23	ug/kg	
106-47-8	4-Chloroaniline ^b	66 U J	170	66	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	170	33	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FEIDS-SS7-SO-07	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-4	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	170	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	170	33	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	170	33	17	ug/kg	
218-01-9	Chrysene	33 U	170	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	170	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	170	33	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	66 U	170	66	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	66 U	170	66	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	66 U	170	66	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine ^b	66 U J	170	66	39	ug/kg	
84-66-2	Diethyl Phthalate	120 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	66 U	170	66	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	66 U	170	66	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	170	33	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	170	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	170	33	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	170	33	17	ug/kg	
86-73-7	Fluorene	33 U	170	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	170	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	66 U	170	66	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	66 U	170	66	33	ug/kg	
67-72-1	Hexachloroethane	66 U	170	66	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	170	33	20	ug/kg	
78-59-1	Isophorone	33 U	170	33	17	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-20-3	Naphthalene	33 U	170	33	17	ug/kg	
88-74-4	2-Nitroaniline	66 U	170	66	38	ug/kg	
99-09-2	3-Nitroaniline ^b	66 U J	170	66	19	ug/kg	
100-01-6	4-Nitroaniline	66 U	170	66	48	ug/kg	
98-95-3	Nitrobenzene	33 U	170	33	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	66 U	170	66	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	170	33	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	66 U	170	66	18	ug/kg	
85-01-8	Phenanthrene	33 U	170	33	17	ug/kg	
129-00-0	Pyrene	33 U	170	33	19	ug/kg	
110-86-1	Pyridine	120 U	330	120	66	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	170	33	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS7-SO-07

Lab Sample ID: FA41762-4

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		40-102%
4165-62-2	Phenol-d5	81%		41-100%
118-79-6	2,4,6-Tribromophenol	86%		42-108%
4165-60-0	Nitrobenzene-d5	84%		40-105%
321-60-8	2-Fluorobiphenyl	84%		43-107%
1718-51-0	Terphenyl-d14	82%		45-119%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Associated ICV outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS7-SO-07

Lab Sample ID: FA41762-4

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8151A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053919.D	1	03/21/17	MG	03/16/17	OP64197	GCC1114
Run #2 ^b	CC054038.D	1	03/27/17	MG	03/26/17	OP64338	GCC1117

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2	15.0 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	16 U J	33	16	8.4	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.6 U	3.3	1.6	0.92	ug/kg	
93-76-5	2,4,5-T	1.6 U	3.3	1.6	0.85	ug/kg	
1918-00-9	Dicamba	1.6 U	3.3	1.6	0.77	ug/kg	
88-85-7	Dinoseb	33 U	82	33	16	ug/kg	
75-99-0	Dalapon	66 U	160	66	33	ug/kg	
120-36-5	Dichloroprop	16 U	33	16	8.2	ug/kg	
94-82-6	2,4-DB	16 U	33	16	8.5	ug/kg	
93-65-2	MCPP	1600 U	3300	1600	840	ug/kg	
94-74-6	MCPA	2500 U	3300	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.6 U	3.3	1.6	0.69	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^c	83%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS7-SO-07

Lab Sample ID: FA41762-4

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8081B SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	TT381485.D	1	03/22/17	MV	03/16/17	OP64199	GTT1929
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.83 U	1.7	0.83	0.52	ug/kg	
319-84-6	alpha-BHC ^c	0.83 U	1.7	0.83	0.52	ug/kg	
319-85-7	beta-BHC	0.83 U	1.7	0.83	0.49	ug/kg	
319-86-8	delta-BHC	0.83 U	1.7	0.83	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.83 U	1.7	0.83	0.50	ug/kg	
5103-71-9	alpha-Chlordane ^c	0.83 U	1.7	0.83	0.52	ug/kg	
5103-74-2	gamma-Chlordane ^c	0.83 U	1.7	0.83	0.48	ug/kg	
60-57-1	Dieldrin	0.83 U	1.7	0.83	0.46	ug/kg	
72-54-8	4,4'-DDD	0.83 U	3.3	0.83	0.46	ug/kg	
72-55-9	4,4'-DDE	0.83 U	3.3	0.83	0.60	ug/kg	
50-29-3	4,4'-DDT	0.83 U	3.3	0.83	0.51	ug/kg	
72-20-8	Endrin	1.7 U	3.3	1.7	0.84	ug/kg	
1031-07-8	Endosulfan sulfate	0.83 U	3.3	0.83	0.44	ug/kg	
7421-93-4	Endrin aldehyde	2.0	3.3	0.83	0.38	ug/kg	J
53494-70-5	Endrin ketone	0.83 U	3.3	0.83	0.52	ug/kg	
959-98-8	Endosulfan-I	0.83 U	1.7	0.83	0.38	ug/kg	
33213-65-9	Endosulfan-II	0.83 U	1.7	0.83	0.39	ug/kg	
76-44-8	Heptachlor	0.83 U	1.7	0.83	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	0.83 U	1.7	0.83	0.49	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.3	1.7	0.66	ug/kg	
8001-35-2	Toxaphene	41 U	83	41	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	114%		50-122%
2051-24-3	Decachlorobiphenyl	96%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) All hits confirmed by dual column analysis.

(c) Associated BS recovery outside control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS7-SO-07

Lab Sample ID: FA41762-4

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8082A SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39849.D	1	03/20/17	NJ	03/16/17	OP64200	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.6	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.3	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.3	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.6	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.6	ug/kg	
11097-69-1	Aroclor 1254	12 U ^J	17	12	6.6	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		44-126%
2051-24-3	Decachlorobiphenyl	108%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS7-SO-07

Lab Sample ID: FA41762-4

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: n/a ^a

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	5250	49	12	2.1	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^b	0.090 J	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^b	1.9	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^b	37.7	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^b	0.30 J	0.49	0.25	0.053	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^b	0.077 J	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^b	4150	49	25	3.5	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^b	5.5	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^b	1.8	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^b	3.4	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^b	5630	49	12	3.9	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^b	5.4	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^b	1440	49	25	2.5	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^b	73.3	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.0074 J	0.038	0.015	0.0038	mg/kg	1	03/17/17	03/17/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^b	4.0	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^b	1370	49	25	3.2	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^b	2.1	0.49	0.25	0.088	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^b	0.25 U	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^b	27.5 J	49	25	2.4	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^b	0.058 J	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^b	8.9	0.49	0.25	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^b	17.5 J	0.49	0.25	0.14	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13902

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31803

(4) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS

ACCUTEST
FA41762

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS8-SO-08

Lab Sample ID: FA41762-5A

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8260B

Percent Solids: 98.3

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2288.D	1	03/04/17	SP	n/a	n/a	V2B77
Run #2							

	Initial Weight	Final Volume
Run #1	7.15 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	18 U J	36	18	7.1	ug/kg	
71-43-2	Benzene	1.4 U	3.6	1.4	0.87	ug/kg	
108-86-1	Bromobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
74-97-5	Bromochloromethane	1.4 U	3.6	1.4	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	3.6	1.4	0.71	ug/kg	
75-25-2	Bromoform	1.4 U	3.6	1.4	0.71	ug/kg	
78-93-3	2-Butanone (MEK) ^b	11 U	18	11	5.2	ug/kg	
104-51-8	n-Butylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
135-98-8	sec-Butylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
98-06-6	tert-Butylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
75-15-0	Carbon Disulfide	1.4 U	3.6	1.4	0.71	ug/kg	
56-23-5	Carbon Tetrachloride	1.4 U	3.6	1.4	0.73	ug/kg	
108-90-7	Chlorobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
75-00-3	Chloroethane	2.5 U	3.6	2.5	1.4	ug/kg	
67-66-3	Chloroform	1.4 U	3.6	1.4	0.95	ug/kg	
95-49-8	o-Chlorotoluene	1.4 U	3.6	1.4	0.71	ug/kg	
106-43-4	p-Chlorotoluene	1.4 U	3.6	1.4	0.71	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	3.6	1.4	0.71	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.5 U	3.6	2.5	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.4 U	3.6	1.4	0.71	ug/kg	
75-71-8	Dichlorodifluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.4 U	3.6	1.4	0.82	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.6	1.4	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	3.6	1.4	0.71	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	3.6	1.4	0.98	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	3.6	1.4	0.71	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	3.6	1.4	0.71	ug/kg	
142-28-9	1,3-Dichloropropane	1.4 U	3.6	1.4	0.71	ug/kg	
594-20-7	2,2-Dichloropropane	1.4 U	3.6	1.4	0.71	ug/kg	

U = Not detected LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SS8-SO-08	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-5A	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	98.3
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.4 U J	3.6	1.4	0.73	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	3.6	1.4	0.71	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	3.6	1.4	0.71	ug/kg	
100-41-4	Ethylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
87-68-3	Hexachlorobutadiene	1.4 U	3.6	1.4	0.92	ug/kg	
591-78-6	2-Hexanone	11 U	18	11	5.3	ug/kg	
98-82-8	Isopropylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
99-87-6	p-Isopropyltoluene	1.4 U	3.6	1.4	0.71	ug/kg	
74-83-9	Methyl Bromide	2.5 U	3.6	2.5	1.4	ug/kg	
74-87-3	Methyl Chloride	2.5 U	3.6	2.5	1.4	ug/kg	
74-95-3	Methylene Bromide	1.4 U	3.6	1.4	0.71	ug/kg	
75-09-2	Methylene Chloride	3.6 U	7.1	3.6	2.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	11 U	18	11	5.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.4 U	3.6	1.4	0.71	ug/kg	
91-20-3	Naphthalene	2.5 U	3.6	2.5	1.4	ug/kg	
103-65-1	n-Propylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
100-42-5	Styrene	1.4 U	3.6	1.4	0.71	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.4 U	3.6	1.4	0.73	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	3.6	1.4	0.91	ug/kg	
108-88-3	Toluene	1.4 U	3.6	1.4	0.71	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	3.6	2.5	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	3.6	2.5	0.71	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
79-01-6	Trichloroethylene	1.4 U	3.6	1.4	0.71	ug/kg	
75-69-4	Trichlorofluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.5 U	3.6	2.5	0.89	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
108-05-4	Vinyl Acetate C	14 U	18	14	12	ug/kg	
75-01-4	Vinyl Chloride	1.4 U	3.6	1.4	0.71	ug/kg	
	m,p-Xylene	2.8 U	7.1	2.8	0.78	ug/kg	
95-47-6	o-Xylene	1.4 U	3.6	1.4	0.71	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		75-124%
17060-07-0	1,2-Dichloroethane-D4	108%		72-135%
2037-26-5	Toluene-D8	101%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS8-SO-08	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-5A	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	98.3
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		71-133%

- (a) Pre-weighed vials were altered in the field; sample weights are estimated.
(b) Associated BS recovery outside control limits.
(c) Associated CCV outside control limits.

U = Not detected	LOD = Limit of Detection	J = Indicates an estimated value
I.O.Q. = Limit of Quantitation	DL = Detection Limit	B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS8-SO-08

Lab Sample ID: FA41762-5

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X053084.D	I	03/25/17	NG	03/16/17	OP64194	SX2247
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	830	330	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	170	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	170	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	170	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	66 U	170	66	44	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	830	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	66	ug/kg	
95-48-7	2-Methylphenol	33 U	170	33	20	ug/kg	
	3&4-Methylphenol	66 U	170	66	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	170	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	830	330	170	ug/kg	
87-86-5	Pentachlorophenol	330 U	830	330	170	ug/kg	
108-95-2	Phenol	33 U	170	33	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	170	33	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	170	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	170	33	18	ug/kg	
208-96-8	Acenaphthylene	33 U	170	33	17	ug/kg	
62-53-3	Aniline	66 U	170	66	36	ug/kg	
120-12-7	Anthracene	33 U	170	33	19	ug/kg	
92-87-5	Benzidine ^b	830 U ^J	1700	830	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	170	33	17	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	170	33	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	170	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	170	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	170	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	170	33	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	170	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	66 U	170	66	33	ug/kg	
86-74-8	Carbazole	33 U	170	33	23	ug/kg	
106-47-8	4-Chloroaniline ^b	66 U ^J	170	66	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	170	33	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FEIDS-SS8-SO-08
 Lab Sample ID: FA41762-5
 Matrix: SO - Soil
 Method: SW846 8270D SW846 3550C
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: n/a ^a

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	170	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	170	33	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	170	33	17	ug/kg	
218-01-9	Chrysene	33 U	170	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	170	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	170	33	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	66 U	170	66	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	66 U	170	66	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	66 U	170	66	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine ^b	66 U J	170	66	40	ug/kg	
84-66-2	Diethyl Phthalate	120 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	66 U	170	66	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	66 U	170	66	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	170	33	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	170	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	170	33	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	170	33	17	ug/kg	
86-73-7	Fluorene	33 U	170	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	170	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	66 U	170	66	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	66 U	170	66	33	ug/kg	
67-72-1	Hexachloroethane	66 U	170	66	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	170	33	20	ug/kg	
78-59-1	Isophorone	33 U	170	33	17	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-20-3	Naphthalene	33 U	170	33	17	ug/kg	
88-74-4	2-Nitroaniline	66 U	170	66	39	ug/kg	
99-09-2	3-Nitroaniline ^b	66 U J	170	66	19	ug/kg	
100-01-6	4-Nitroaniline	66 U	170	66	48	ug/kg	
98-95-3	Nitrobenzene	33 U	170	33	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	66 U	170	66	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	170	33	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	66 U	170	66	18	ug/kg	
85-01-8	Phenanthrene	33 U	170	33	17	ug/kg	
129-00-0	Pyrene	33 U	170	33	19	ug/kg	
110-86-1	Pyridine	120 U	330	120	66	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	170	33	20	ug/kg	

U = Not detected LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS8-SO-08

Lab Sample ID: FA41762-5

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	81%		40-102%
4165-62-2	Phenol-d5	84%		41-100%
118-79-6	2,4,6-Tribromophenol	90%		42-108%
4165-60-0	Nitrobenzene-d5	92%		40-105%
321-60-8	2-Fluorobiphenyl	90%		43-107%
1718-51-0	Terphenyl-d14	89%		45-119%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Associated ICV outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS8-SO-08

Lab Sample ID: FA41762-5

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8151A SW846 3546

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053920.D	1	03/21/17	MG	03/16/17	OP64197	GCC1114
Run #2 ^b	CC054039.D	1	03/27/17	MG	03/26/17	OP64338	GCC1117

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2	15.1 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	16 U J	33	16	8.4	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.6 U	3.3	1.6	0.92	ug/kg	
93-76-5	2,4,5-T	1.6 U	3.3	1.6	0.84	ug/kg	
1918-00-9	Dicamba	1.6 U	3.3	1.6	0.76	ug/kg	
88-85-7	Dinoseb	33 U	82	33	16	ug/kg	
75-99-0	Dalapon	65 U	160	65	33	ug/kg	
120-36-5	Dichloroprop	16 U	33	16	8.1	ug/kg	
94-82-6	2,4-DB	16 U	33	16	8.5	ug/kg	
93-65-2	MCP	1600 U	3300	1600	840	ug/kg	
94-74-6	MCPA	2500 U	3300	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.6 U	3.3	1.6	0.69	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	5% ^c	57%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS8-SO-08

Lab Sample ID: FA41762-5

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8081B SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT381559.D	1	03/24/17	MV	03/16/17	OP64199	GTT1931
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.83 U	1.7	0.83	0.53	ug/kg	
319-84-6	alpha-BHC	0.83 U	1.7	0.83	0.53	ug/kg	
319-85-7	beta-BHC	0.83 U	1.7	0.83	0.49	ug/kg	
319-86-8	delta-BHC	0.83 U	1.7	0.83	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.83 U	1.7	0.83	0.50	ug/kg	
5103-71-9	alpha-Chlordane	0.83 U	1.7	0.83	0.52	ug/kg	
5103-74-2	gamma-Chlordane	0.83 U	1.7	0.83	0.48	ug/kg	
60-57-1	Dieldrin	0.83 U	1.7	0.83	0.47	ug/kg	
72-54-8	4,4'-DDD	0.83 U	3.3	0.83	0.46	ug/kg	
72-55-9	4,4'-DDE	0.83 U	3.3	0.83	0.61	ug/kg	
50-29-3	4,4'-DDT	0.83 U	3.3	0.83	0.51	ug/kg	
72-20-8	Endrin	1.7 U	3.3	1.7	0.84	ug/kg	
1031-07-8	Endosulfan sulfate	0.83 U	3.3	0.83	0.44	ug/kg	
7421-93-4	Endrin aldehyde	0.83 U	3.3	0.83	0.39	ug/kg	
53494-70-5	Endrin ketone	0.83 U	3.3	0.83	0.52	ug/kg	
959-98-8	Endosulfan-I	0.83 U	1.7	0.83	0.38	ug/kg	
33213-65-9	Endosulfan-II	0.83 U	1.7	0.83	0.39	ug/kg	
76-44-8	Heptachlor	0.83 U	1.7	0.83	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	0.83 U	1.7	0.83	0.49	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.3	1.7	0.67	ug/kg	
8001-35-2	Toxaphene	42 U	83	42	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	118%		50-122%
2051-24-3	Decachlorobiphenyl	98%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS8-SO-08

Lab Sample ID: FA41762-5

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8082A SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39850.D	1	03/21/17	NJ	03/16/17	OP64200	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.7	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.3	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.3	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.7	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.7	ug/kg	
11097-69-1	Aroclor 1254	12 U ^J	17	12	6.7	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	100%		44-126%
2051-24-3	Decachlorobiphenyl	105%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS8-SO-08

Lab Sample ID: FA41762-5

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: n/a^a

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	4740	46	12	2.0	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^b	0.085 J	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^b	1.8	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^b	39.2	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^b	0.24 J	0.46	0.23	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^b	0.073 J	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^b	4530	46	23	3.3	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^b	4.9	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^b	1.7	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^b	3.4	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^b	5020	46	12	3.7	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^b	5.5	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^b	1410	46	23	2.4	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^b	69.1	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.013 J	0.037	0.015	0.0037	mg/kg	1	03/17/17	03/17/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^b	3.9	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^b	1310	46	23	3.0	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^b	1.9	0.46	0.23	0.083	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^b	0.23 U	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^b	27.3 J	46	23	2.2	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^b	0.055 J	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^b	7.8	0.46	0.23	0.046	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^b	181 J	0.46	0.23	0.13	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13902

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31803

(4) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS9-SO-09

Lab Sample ID: FA41762-6A

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8260B

Percent Solids: 97.4

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2289.D	1	03/04/17	SP	n/a	n/a	V2B77
Run #2							

	Initial Weight	Final Volume
Run #1	7.20 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	18 U	3.6	1.8	7.1	ug/kg	
71-43-2	Benzene	1.4 U	3.6	1.4	0.87	ug/kg	
108-86-1	Bromobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
74-97-5	Bromochloromethane	1.4 U	3.6	1.4	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	3.6	1.4	0.71	ug/kg	
75-25-2	Bromoform	1.4 U	3.6	1.4	0.71	ug/kg	
78-93-3	2-Butanone (MEK) ^b	11 U	18	11	5.2	ug/kg	
104-51-8	n-Butylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
135-98-8	sec-Butylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
98-06-6	tert-Butylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
75-15-0	Carbon Disulfide	1.4 U	3.6	1.4	0.71	ug/kg	
56-23-5	Carbon Tetrachloride	1.4 U	3.6	1.4	0.73	ug/kg	
108-90-7	Chlorobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
75-00-3	Chloroethane	2.5 U	3.6	2.5	1.4	ug/kg	
67-66-3	Chloroform	1.4 U	3.6	1.4	0.95	ug/kg	
95-49-8	o-Chlorotoluene	1.4 U	3.6	1.4	0.71	ug/kg	
106-43-4	p-Chlorotoluene	1.4 U	3.6	1.4	0.71	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	3.6	1.4	0.71	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.5 U	3.6	2.5	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.4 U	3.6	1.4	0.71	ug/kg	
75-71-8	Dichlorodifluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.4 U	3.6	1.4	0.82	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.6	1.4	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	3.6	1.4	0.71	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	3.6	1.4	0.98	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	3.6	1.4	0.71	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	3.6	1.4	0.71	ug/kg	
142-28-9	1,3-Dichloropropane	1.4 U	3.6	1.4	0.71	ug/kg	
594-20-7	2,2-Dichloropropane	1.4 U	3.6	1.4	0.71	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Client Sample ID:	FEIDS-SS9-SO-09	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-6A	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	97.4
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.4 U J	3.6	1.4	0.73	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	3.6	1.4	0.71	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	3.6	1.4	0.71	ug/kg	
100-41-4	Ethylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
87-68-3	Hexachlorobutadiene	1.4 U	3.6	1.4	0.92	ug/kg	
591-78-6	2-Hexanone	11 U	18	11	5.3	ug/kg	
98-82-8	Isopropylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
99-87-6	p-Isopropyltoluene	1.4 U	3.6	1.4	0.71	ug/kg	
74-83-9	Methyl Bromide	2.5 U	3.6	2.5	1.4	ug/kg	
74-87-3	Methyl Chloride	2.5 U	3.6	2.5	1.4	ug/kg	
74-95-3	Methylene Bromide	1.4 U	3.6	1.4	0.71	ug/kg	
75-09-2	Methylene Chloride	3.6 U	7.1	3.6	2.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	11 U	18	11	5.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.4 U	3.6	1.4	0.71	ug/kg	
91-20-3	Naphthalene	2.5 U	3.6	2.5	1.4	ug/kg	
103-65-1	n-Propylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
100-42-5	Styrene	1.4 U	3.6	1.4	0.71	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.4 U	3.6	1.4	0.73	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U V	3.6	1.4	0.91	ug/kg	
108-88-3	Toluene	1.2	3.6	1.4	0.71	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	2.5 U J	3.6	2.5	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	3.6	2.5	0.71	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
79-01-6	Trichloroethylene	1.4 U	3.6	1.4	0.71	ug/kg	
75-69-4	Trichlorofluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.5 U	3.6	2.5	0.89	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
108-05-4	Vinyl Acetate C	14 U	18	14	12	ug/kg	
75-01-4	Vinyl Chloride	1.4 U	3.6	1.4	0.71	ug/kg	
	m,p-Xylene	2.9 U	7.1	2.9	0.78	ug/kg	
95-47-6	o-Xylene	1.4 U V	3.6	1.4	0.71	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		75-124%
17060-07-0	1,2-Dichloroethane-D4	108%		72-135%
2037-26-5	Toluene-D8	102%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS9-SO-09	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-6A	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	97.4
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

(b) Associated BS recovery outside control limits.

(c) Associated CCV outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID:	FEIDS-SS9-SO-09	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-6	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X053085.D	1	03/25/17	NG	03/16/17	OP64194	SX2247
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	830	330	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	170	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	170	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	170	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	66 U	170	66	44	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	830	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	66	ug/kg	
95-48-7	2-Methylphenol	33 U	170	33	20	ug/kg	
	3&4-Methylphenol	66 U	170	66	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	170	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	830	330	170	ug/kg	
87-86-5	Pentachlorophenol	330 U	830	330	170	ug/kg	
108-95-2	Phenol	33 U	170	33	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	170	33	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	170	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	170	33	18	ug/kg	
208-96-8	Acenaphthylene	33 U	170	33	17	ug/kg	
62-53-3	Aniline	66 U	170	66	36	ug/kg	
120-12-7	Anthracene	33 U	170	33	19	ug/kg	
92-87-5	Benzidine ^b	830 U J	1700	830	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	170	33	17	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	170	33	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	170	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	170	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	170	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	170	33	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	170	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	66 U	170	66	33	ug/kg	
86-74-8	Carbazole	33 U	170	33	23	ug/kg	
106-47-8	4-Chloroaniline ^b	66 U J	170	66	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	170	33	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS9-SO-09
 Lab Sample ID: FA41762-6
 Matrix: SO - Soil
 Method: SW846 8270D SW846 3550C
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: n/a ^a

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	170	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	170	33	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	170	33	17	ug/kg	
218-01-9	Chrysene	33 U	170	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	170	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	170	33	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	66 U	170	66	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	66 U	170	66	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	66 U	170	66	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine ^b	66 U J	170	66	40	ug/kg	
84-66-2	Diethyl Phthalate	120 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	66 U	170	66	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	66 U	170	66	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	170	33	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	170	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	170	33	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	170	33	17	ug/kg	
86-73-7	Fluorene	33 U	170	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	170	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	66 U	170	66	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	66 U	170	66	33	ug/kg	
67-72-1	Hexachloroethane	66 U	170	66	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	170	33	20	ug/kg	
78-59-1	Isophorone	33 U	170	33	17	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-20-3	Naphthalene	33 U	170	33	17	ug/kg	
88-74-4	2-Nitroaniline	66 U	170	66	39	ug/kg	
99-09-2	3-Nitroaniline ^b	66 U J	170	66	19	ug/kg	
100-01-6	4-Nitroaniline	66 U	170	66	48	ug/kg	
98-95-3	Nitrobenzene	33 U	170	33	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	66 U	170	66	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	170	33	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	66 U	170	66	18	ug/kg	
85-01-8	Phenanthrene	33 U	170	33	17	ug/kg	
129-00-0	Pyrene	33 U	170	33	19	ug/kg	
110-86-1	Pyridine	120 U	330	120	66	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	170	33	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

R = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS9-SO-09

Lab Sample ID: FA41762-6

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	85%		40-102%
4165-62-2	Phenol-d5	89%		41-100%
118-79-6	2,4,6-Tribromophenol	94%		42-108%
4165-60-0	Nitrobenzene-d5	93%		40-105%
321-60-8	2-Fluorobiphenyl	96%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Associated ICV outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID:	FEIDS-SS9-SO-09	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-6	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8151A SW846 3546		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053921.D	1	03/21/17	MG	03/16/17	OP64197	GCC1114
Run #2 ^b	CC054040.D	1	03/27/17	MG	03/26/17	OP64338	GCC1117

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2	14.8 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	33	17	8.5	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.3	1.7	0.94	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.3	1.7	0.86	ug/kg	
1918-00-9	Dicamba	1.7 U	3.3	1.7	0.78	ug/kg	
88-85-7	Dinoseb	33 U	83	33	17	ug/kg	
75-99-0	Dalapon	67 U	170	67	33	ug/kg	
120-36-5	Dichloroprop	17 U	33	17	8.3	ug/kg	
94-82-6	2,4-DB	17 U	33	17	8.6	ug/kg	
93-65-2	MCP	1700 U	3300	1700	850	ug/kg	
94-74-6	MCPA	2500 U	3300	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.7 U	3.3	1.7	0.70	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^c	73%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS9-SO-09

Lab Sample ID: FA41762-6

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8081B SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	TT381487.D	1	03/22/17	MV	03/16/17	OP64199	GTT1929
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.83 U	1.7	0.83	0.52	ug/kg	
319-84-6	alpha-BHC ^c	0.83 U	1.7	0.83	0.52	ug/kg	
319-85-7	beta-BHC	0.83 U	1.7	0.83	0.49	ug/kg	
319-86-8	delta-BHC	0.83 U	1.7	0.83	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.83 U	1.7	0.83	0.50	ug/kg	
5103-71-9	alpha-Chlordane ^c	0.83 U	1.7	0.83	0.52	ug/kg	
5103-74-2	gamma-Chlordane ^c	0.83 U	1.7	0.83	0.48	ug/kg	
60-57-1	Dieldrin	0.83 U	1.7	0.83	0.46	ug/kg	
72-54-8	4,4'-DDD	0.83 U	3.3	0.83	0.46	ug/kg	
72-55-9	4,4'-DDE	0.83 U	3.3	0.83	0.60	ug/kg	
50-29-3	4,4'-DDT	0.83 U	3.3	0.83	0.51	ug/kg	
72-20-8	Endrin	1.7 U	3.3	1.7	0.84	ug/kg	
1031-07-8	Endosulfan sulfate	0.83 U	3.3	0.83	0.44	ug/kg	
7421-93-4	Endrin aldehyde	1.2	3.3	0.83	0.38	ug/kg	J
53494-70-5	Endrin ketone	0.83 U	3.3	0.83	0.52	ug/kg	
959-98-8	Endosulfan-I	0.83 U	1.7	0.83	0.38	ug/kg	
33213-65-9	Endosulfan-II	0.83 U	1.7	0.83	0.39	ug/kg	
76-44-8	Heptachlor	0.83 U	1.7	0.83	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	0.83 U	1.7	0.83	0.49	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.3	1.7	0.66	ug/kg	
8001-35-2	Toxaphene	41 U	83	41	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		50-122%
2051-24-3	Decachlorobiphenyl	89%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) All hits confirmed by dual column analysis.

(c) Associated BS recovery outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS9-SO-09

Lab Sample ID: FA41762-6

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8082A SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39851.D	1	03/21/17	NJ	03/16/17	OP64200	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.6	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.3	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.3	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.6	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.6	ug/kg	
11097-69-1	Aroclor 1254	12 U ^J	17	12	6.6	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		44-126%
2051-24-3	Decachlorobiphenyl	97%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS9-SO-09

Lab Sample ID: FA41762-6

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: n/a ^a

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	4430	48	12	2.1	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^b	0.068 J	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^b	1.6	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^b	32.3	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^b	0.23 J	0.48	0.24	0.051	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^b	0.053 J	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^b	3230	48	24	3.4	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^b	4.3	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^b	1.5	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^b	2.5	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^b	4400	48	12	3.8	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^b	4.1	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^b	1200	48	24	2.5	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^b	59.8	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.0096 J	0.037	0.015	0.0037	mg/kg	1	03/17/17	03/17/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^b	3.7	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^b	1140	48	24	3.1	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^b	1.8	0.48	0.24	0.086	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^b	0.24 U	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^b	21.7 J	48	24	2.3	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^b	0.24 U	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^b	6.5	0.48	0.24	0.048	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^b	14.1 J	0.48	0.24	0.14	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13902

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31803

(4) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS10-SO-10

Lab Sample ID: FA41762-7A

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8260B

Percent Solids: 96.1

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2290.D	1	03/04/17	SP	n/a	n/a	V2B77
Run #2							

	Initial Weight	Final Volume
Run #1	6.71 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	19 U J	39	19	7.8	ug/kg	
71-43-2	Benzene	1.6 U	3.9	1.6	0.95	ug/kg	
108-86-1	Bromobenzene	1.6 U	3.9	1.6	0.78	ug/kg	
74-97-5	Bromochloromethane	1.6 U	3.9	1.6	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.6 U	3.9	1.6	0.78	ug/kg	
75-25-2	Bromoform	1.6 U	3.9	1.6	0.78	ug/kg	
78-93-3	2-Butanone (MEK) ^b	12 U	19	12	5.6	ug/kg	
104-51-8	n-Butylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
135-98-8	sec-Butylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
98-06-6	tert-Butylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
75-15-0	Carbon Disulfide	1.6 U	3.9	1.6	0.78	ug/kg	
56-23-5	Carbon Tetrachloride	1.6 U	3.9	1.6	0.79	ug/kg	
108-90-7	Chlorobenzene	1.6 U	3.9	1.6	0.78	ug/kg	
75-00-3	Chloroethane	2.7 U	3.9	2.7	1.6	ug/kg	
67-66-3	Chloroform	1.6 U	3.9	1.6	1.0	ug/kg	
95-49-8	o-Chlorotoluene	1.6 U	3.9	1.6	0.78	ug/kg	
106-43-4	p-Chlorotoluene	1.6 U	3.9	1.6	0.78	ug/kg	
124-48-1	Dibromochloromethane	1.6 U	3.9	1.6	0.78	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.7 U	3.9	2.7	1.5	ug/kg	
106-93-4	1,2-Dibromoethane	1.6 U	3.9	1.6	0.78	ug/kg	
75-71-8	Dichlorodifluoromethane	2.7 U	3.9	2.7	1.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.6 U	3.9	1.6	0.78	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.6 U	3.9	1.6	0.78	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.6 U	3.9	1.6	0.89	ug/kg	
75-34-3	1,1-Dichloroethane	1.6 U	3.9	1.6	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	1.6 U	3.9	1.6	0.78	ug/kg	
75-35-4	1,1-Dichloroethylene	1.6 U	3.9	1.6	0.78	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.6 U	3.9	1.6	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.6 U	3.9	1.6	0.78	ug/kg	
78-87-5	1,2-Dichloropropane	1.6 U	3.9	1.6	0.78	ug/kg	
142-28-9	1,3-Dichloropropane	1.6 U	3.9	1.6	0.78	ug/kg	
594-20-7	2,2-Dichloropropane	1.6 U V	3.9	1.6	0.78	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Client Sample ID: FEIDS-SS10-SO-10
 Lab Sample ID: FA41762-7A
 Matrix: SO - Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: 96.1

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.6 U J	3.9	1.6	0.79	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.6 U	3.9	1.6	0.78	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.6 U	3.9	1.6	0.78	ug/kg	
100-41-4	Ethylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
87-68-3	Hexachlorobutadiene	1.6 U	3.9	1.6	1.0	ug/kg	
591-78-6	2-Hexanone	12 U	19	12	5.8	ug/kg	
98-82-8	Isopropylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
99-87-6	p-Isopropyltoluene	1.6 U	3.9	1.6	0.78	ug/kg	
74-83-9	Methyl Bromide	2.7 U	3.9	2.7	1.6	ug/kg	
74-87-3	Methyl Chloride	2.7 U	3.9	2.7	1.6	ug/kg	
74-95-3	Methylene Bromide	1.6 U	3.9	1.6	0.78	ug/kg	
75-09-2	Methylene Chloride	3.9 U	7.8	3.9	3.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	12 U	19	12	5.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.6 U	3.9	1.6	0.78	ug/kg	
91-20-3	Naphthalene	2.7 U	3.9	2.7	1.6	ug/kg	
103-65-1	n-Propylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
100-42-5	Styrene	1.6 U	3.9	1.6	0.78	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.6 U	3.9	1.6	0.80	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.6 U	3.9	1.6	0.78	ug/kg	
127-18-4	Tetrachloroethylene	1.6 U	3.9	1.6	0.99	ug/kg	
108-88-3	Toluene	1.6 U	3.9	1.6	0.78	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.7 U	3.9	2.7	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.7 U	3.9	2.7	0.78	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.6 U	3.9	1.6	0.78	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.6 U	3.9	1.6	0.78	ug/kg	
79-01-6	Trichloroethylene	1.6 U	3.9	1.6	0.78	ug/kg	
75-69-4	Trichlorofluoromethane	2.7 U	3.9	2.7	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.7 U	3.9	2.7	0.97	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
108-05-4	Vinyl Acetate ^C	16 U	19	16	13	ug/kg	
75-01-4	Vinyl Chloride	1.6 U	3.9	1.6	0.78	ug/kg	
	m,p-Xylene	3.1 U	7.8	3.1	0.85	ug/kg	
95-47-6	o-Xylene	1.6 U	3.9	1.6	0.78	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		75-124%
17060-07-0	1,2-Dichloroethane-D4	110%		72-135%
2037-26-5	Toluene-D8	103%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS10-SO-10	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-7A	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	96.1
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%		71-133%

- (a) Pre-weighed vials were altered in the field; sample weights are estimated.
(b) Associated BS recovery outside control limits.
(c) Associated CCV outside control limits.

U = Not detected	LOD = Limit of Detection	J = Indicates an estimated value
LOQ = Limit of Quantitation	DL = Detection Limit	B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS10-SO-10

Lab Sample ID: FA41762-7

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X053086.D	1	03/25/17	NG	03/16/17	OP64194	SX2247
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	830	330	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	170	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	170	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	170	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	66 U	170	66	44	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	830	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	66	ug/kg	
95-48-7	2-Methylphenol	33 U	170	33	20	ug/kg	
	3&4-Methylphenol	66 U	170	66	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	170	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	830	330	170	ug/kg	
87-86-5	Pentachlorophenol	330 U	830	330	170	ug/kg	
108-95-2	Phenol	33 U	170	33	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	170	33	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	170	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	170	33	18	ug/kg	
208-96-8	Acenaphthylene	33 U	170	33	17	ug/kg	
62-53-3	Aniline	66 U	170	66	35	ug/kg	
120-12-7	Anthracene	33 U	170	33	18	ug/kg	
92-87-5	Benzidine ^b	830 U ^J	1700	830	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	170	33	17	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	170	33	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	170	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	170	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	170	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	170	33	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	170	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	66 U	170	66	33	ug/kg	
86-74-8	Carbazole	33 U	170	33	23	ug/kg	
106-47-8	4-Chloroaniline ^b	66 U ^J	170	66	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	170	33	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SS10-SO-10	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-7	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	170	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	170	33	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	170	33	17	ug/kg	
218-01-9	Chrysene	33 U	170	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	170	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	170	33	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	66 U	170	66	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	66 U	170	66	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	66 U	170	66	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine ^b	66 U J	170	66	39	ug/kg	
84-66-2	Diethyl Phthalate	126 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	66 U	170	66	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	66 U	170	66	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	170	33	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	170	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	170	33	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	170	33	17	ug/kg	
86-73-7	Fluorene	33 U	170	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	170	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	66 U	170	66	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	66 U	170	66	33	ug/kg	
67-72-1	Hexachloroethane	66 U	170	66	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	170	33	20	ug/kg	
78-59-1	Isoplorone	33 U	170	33	17	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-20-3	Naphthalene	33 U	170	33	17	ug/kg	
88-74-4	2-Nitroaniline	66 U	170	66	38	ug/kg	
99-09-2	3-Nitroaniline ^b	66 U J	170	66	19	ug/kg	
100-01-6	4-Nitroaniline	66 U	170	66	48	ug/kg	
98-95-3	Nitrobenzene	33 U	170	33	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	66 U	170	66	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	170	33	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	66 U	170	66	18	ug/kg	
85-01-8	Phenanthrene	33 U	170	33	17	ug/kg	
129-00-0	Pyrene	33 U	170	33	19	ug/kg	
110-86-1	Pyridine	120 U	330	120	66	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS10-SO-10	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-7	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	89%		40-102%
4165-62-2	Phenol-d5	93%		41-100%
118-79-6	2,4,6-Tribromophenol	101%		42-108%
4165-60-0	Nitrobenzene-d5	97%		40-105%
321-60-8	2-Fluorobiphenyl	98%		43-107%
1718-51-0	Terphenyl-d14	97%		45-119%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Associated ICV outside control limits.

U = Not detected	LOD = Limit of Detection	J = Indicates an estimated value
LOQ = Limit of Quantitation	DL = Detection Limit	B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS10-SO-10

Lab Sample ID: FA41762-7

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8151A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053922.D	1	03/21/17	MG	03/16/17	OP64197	GCC1114
Run #2 ^b	CC054041.D	1	03/27/17	MG	03/26/17	OP64338	GCC1117

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2	15.0 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	33	17	8.5	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.3	1.7	0.94	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.3	1.7	0.86	ug/kg	
1918-00-9	Dicamba	1.7 U	3.3	1.7	0.78	ug/kg	
88-85-7	Dinoseb	33 U	83	33	17	ug/kg	
75-99-0	Dalapon	67 U	170	67	33	ug/kg	
120-36-5	Dichloroprop	17 U	33	17	8.3	ug/kg	
94-82-6	2,4-DB	17 U	33	17	8.6	ug/kg	
93-65-2	MCP	1700 U	3300	1700	850	ug/kg	
94-74-6	MCPA	2500 U	3300	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.7 U	3.3	1.7	0.70	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^c	73%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS10-SO-10

Lab Sample ID: FA41762-7

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8081B SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	TT381488.D	1	03/22/17	MV	03/16/17	OP64199	GTT1929
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.83 U	1.7	0.83	0.53	ug/kg	
319-84-6	alpha-BHC ^c	0.83 U	1.7	0.83	0.53	ug/kg	
319-85-7	beta-BHC	0.83 U	1.7	0.83	0.49	ug/kg	
319-86-8	delta-BHC	0.83 U	1.7	0.83	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.83 U	1.7	0.83	0.50	ug/kg	
5103-71-9	alpha-Chlordane ^c	0.83 U	1.7	0.83	0.52	ug/kg	
5103-74-2	gamma-Chlordane ^c	0.83 U	1.7	0.83	0.48	ug/kg	
60-57-1	Dieldrin	0.83 U	1.7	0.83	0.47	ug/kg	
72-54-8	4,4'-DDD	0.83 U	3.3	0.83	0.46	ug/kg	
72-55-9	4,4'-DDE	0.83 U	3.3	0.83	0.61	ug/kg	
50-29-3	4,4'-DDT	0.83 U	3.3	0.83	0.51	ug/kg	
72-20-8	Endrin	1.7 U	3.3	1.7	0.84	ug/kg	
1031-07-8	Endosulfan sulfate	0.83 U	3.3	0.83	0.44	ug/kg	
7421-93-4	Endrin aldehyde	1.1	3.3	0.83	0.39	ug/kg	J
53494-70-5	Endrin ketone	0.83 U	3.3	0.83	0.52	ug/kg	
959-98-8	Endosulfan-I	0.83 U	1.7	0.83	0.38	ug/kg	
33213-65-9	Endosulfan-II	0.83 U	1.7	0.83	0.39	ug/kg	
76-44-8	Heptachlor	0.83 U	1.7	0.83	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	0.83 U	1.7	0.83	0.49	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.3	1.7	0.67	ug/kg	
8001-35-2	Toxaphene	42 U	83	42	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%		50-122%
2051-24-3	Decachlorobiphenyl	100%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) All hits confirmed by dual column analysis.

(c) Associated BS recovery outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS10-SO-10

Lab Sample ID: FA41762-7

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8082A SW846 3550C

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39852.D	1	03/21/17	NJ	03/16/17	OP64200	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.7	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.3	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.3	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.7	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.7	ug/kg	
11097-69-1	Aroclor 1254	12 U J	17	12	6.7	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		44-126%
2051-24-3	Decachlorobiphenyl	104%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS10-SO-10

Lab Sample ID: FA41762-7

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: n/a ^a

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	4080	45	11	2.0	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^b	0.071 J	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^b	1.6	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^b	32.9	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^b	0.25 J	0.45	0.23	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^b	0.23 U	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^b	5730	45	23	3.2	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^b	3.9	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^b	1.3	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^b	2.2	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^b	4050	45	11	3.6	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^b	3.4	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^b	1140	45	23	2.3	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^b	51.8	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.0095 J	0.038	0.015	0.0038	mg/kg	1	03/17/17	03/17/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^b	3.1	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^b	972	45	23	3.0	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^b	1.4	0.45	0.23	0.081	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^b	0.23 U	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^b	21.9 J	45	23	2.2	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^b	0.045 J	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^b	6.2	0.45	0.23	0.045	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^b	12.3 J	0.45	0.23	0.13	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13902

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31803

(4) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB1-SO-11

Lab Sample ID: FA41762-8A

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8260B

Percent Solids: 92.3

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2291.D	1	03/04/17	SP	n/a	n/a	V2B77
Run #2							

	Initial Weight	Final Volume
Run #1	5.98 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	23 U ^J	45	23	9.1	ug/kg	
71-43-2	Benzene	1.8 U	4.5	1.8	1.1	ug/kg	
108-86-1	Bromobenzene	1.8 U	4.5	1.8	0.91	ug/kg	
74-97-5	Bromochloromethane	1.8 U	4.5	1.8	1.3	ug/kg	
75-27-4	Bromodichloromethane	1.8 U	4.5	1.8	0.91	ug/kg	
75-25-2	Bromoform	1.8 U	4.5	1.8	0.91	ug/kg	
78-93-3	2-Butanone (MEK) ^b	14 U	23	14	6.6	ug/kg	
104-51-8	n-Butylbenzene	1.8 U	4.5	1.8	0.91	ug/kg	
135-98-8	sec-Butylbenzene	1.8 U	4.5	1.8	0.91	ug/kg	
98-06-6	tert-Butylbenzene	1.8 U	4.5	1.8	0.91	ug/kg	
75-15-0	Carbon Disulfide	1.8 U	4.5	1.8	0.91	ug/kg	
56-23-5	Carbon Tetrachloride	1.8 U	4.5	1.8	0.92	ug/kg	
108-90-7	Chlorobenzene	1.8 U	4.5	1.8	0.91	ug/kg	
75-00-3	Chloroethane	3.2 U	4.5	3.2	1.8	ug/kg	
67-66-3	Chloroform	1.8 U	4.5	1.8	1.2	ug/kg	
95-49-8	o-Chlorotoluene	1.8 U	4.5	1.8	0.91	ug/kg	
106-43-4	p-Chlorotoluene	1.8 U	4.5	1.8	0.91	ug/kg	
124-48-1	Dibromochloromethane	1.8 U	4.5	1.8	0.91	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	3.2 U	4.5	3.2	1.7	ug/kg	
106-93-4	1,2-Dibromoethane	1.8 U	4.5	1.8	0.91	ug/kg	
75-71-8	Dichlorodifluoromethane	3.2 U	4.5	3.2	1.8	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.8 U	4.5	1.8	0.91	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.8 U	4.5	1.8	0.91	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.8 U	4.5	1.8	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	1.8 U	4.5	1.8	1.6	ug/kg	
107-06-2	1,2-Dichloroethane	1.8 U	4.5	1.8	0.91	ug/kg	
75-35-4	1,1-Dichloroethylene	1.8 U	4.5	1.8	0.91	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.8 U	4.5	1.8	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.8 U	4.5	1.8	0.91	ug/kg	
78-87-5	1,2-Dichloropropane	1.8 U	4.5	1.8	0.91	ug/kg	
142-28-9	1,3-Dichloropropane	1.8 U	4.5	1.8	0.91	ug/kg	
594-20-7	2,2-Dichloropropane	1.8 U ^J	4.5	1.8	0.91	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SB1-SO-11

Lab Sample ID: FA41762-8A

Date Sampled: 03/03/17

Matrix: SO - Soil

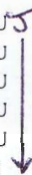
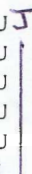

Date Received: 03/04/17

Method: SW846 8260B

Percent Solids: 92.3

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.8 U 	4.5	1.8	0.92	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.8 U	4.5	1.8	0.91	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.8 U	4.5	1.8	0.91	ug/kg	
100-41-4	Ethylbenzene	1.8 U	4.5	1.8	0.91	ug/kg	
87-68-3	Hexachlorobutadiene	1.8 U	4.5	1.8	1.2	ug/kg	
591-78-6	2-Hexanone	14 U	23	14	6.8	ug/kg	
98-82-8	Isopropylbenzene	0.95	4.5	1.8	0.91	ug/kg	J
99-87-6	p-Isopropyltoluene	1.8 U 	4.5	1.8	0.91	ug/kg	
74-83-9	Methyl Bromide	3.2 U	4.5	3.2	1.8	ug/kg	
74-87-3	Methyl Chloride	3.2 U	4.5	3.2	1.8	ug/kg	
74-95-3	Methylene Bromide	1.8 U	4.5	1.8	0.91	ug/kg	
75-09-2	Methylene Chloride	4.5 U	9.1	4.5	3.6	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	14 U	23	14	6.8	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.8 U	4.5	1.8	0.91	ug/kg	
91-20-3	Naphthalene	3.2 U	4.5	3.2	1.8	ug/kg	
103-65-1	n-Propylbenzene	1.8 U	4.5	1.8	0.91	ug/kg	
100-42-5	Styrene	1.8 U	4.5	1.8	0.91	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.8 U	4.5	1.8	0.93	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.8 U	4.5	1.8	0.91	ug/kg	
127-18-4	Tetrachloroethylene	1.8 U	4.5	1.8	1.2	ug/kg	
108-88-3	Toluene	1.8 U	4.5	1.8	0.91	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	3.2 U	4.5	3.2	1.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	3.2 U	4.5	3.2	0.91	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.8 U	4.5	1.8	0.91	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.8 U	4.5	1.8	0.91	ug/kg	
79-01-6	Trichloroethylene	1.8 U	4.5	1.8	0.91	ug/kg	
75-69-4	Trichlorofluoromethane	3.2 U	4.5	3.2	1.8	ug/kg	
96-18-4	1,2,3-Trichloropropane	3.2 U	4.5	3.2	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.8 U	4.5	1.8	0.91	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.8 U	4.5	1.8	0.91	ug/kg	
108-05-4	Vinyl Acetate ^C	18 U	23	18	15	ug/kg	
75-01-4	Vinyl Chloride	1.8 U	4.5	1.8	0.91	ug/kg	
	m,p-Xylene	3.6 U	9.1	3.6	1.0	ug/kg	
95-47-6	o-Xylene	1.8 U 	4.5	1.8	0.91	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dihromofluoromethane	103%		75-124%
17060-07-0	1,2-Dichloroethane-D4	109%		72-135%
2037-26-5	Toluene-D8	99%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB1-SO-11

Lab Sample ID: FA41762-8A

Matrix: SO - Soil

Method: SW846 8260B

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: 92.3

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

(b) Associated BS recovery outside control limits.

(c) Associated CCV outside control limits.

U = Not detected

LOD = Limit of Detection

LOQ = Limit of Quantitation

DL = Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB1-SO-11

Lab Sample ID: FA41762-8

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052842.D	1	03/13/17	NG	03/09/17	OP64104	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	820	330	160	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	160	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	160	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	160	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	66 U	160	66	44	ug/kg	
51-28-5	2,4-Dinitrophenol	490 U	820	490	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	66	ug/kg	
95-48-7	2-Methylphenol	33 U	160	33	20	ug/kg	
	3&4-Methylphenol	66 U	160	66	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	160	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	820	330	160	ug/kg	
87-86-5	Pentachlorophenol	330 U	820	330	160	ug/kg	
108-95-2	Phenol	33 U	160	33	16	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	160	33	26	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	160	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	160	33	17	ug/kg	
208-96-8	Acenaphthylene	33 U	160	33	16	ug/kg	
62-53-3	Aniline	66 U	160	66	35	ug/kg	
120-12-7	Anthracene	33 U	160	33	18	ug/kg	
92-87-5	Benzidine	820 U J	1600	820	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	160	33	16	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	160	33	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	160	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	160	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	160	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	160	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	160	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	66 U	160	66	33	ug/kg	
86-74-8	Carbazole	33 U	160	33	23	ug/kg	
106-47-8	4-Chloroaniline	66 U	160	66	41	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	160	33	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	160	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Client Sample ID: FEIDS-SB1-SO-11
 Lab Sample ID: FA41762-8
 Matrix: SO - Soil
 Method: SW846 8270D SW846 3550C
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: n/a ^a

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	160	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	160	33	16	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	160	33	16	ug/kg	
218-01-9	Chrysene	33 U	160	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	160	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	160	33	16	ug/kg	
95-50-1	1,2-Dichlorobenzene	66 U	160	66	16	ug/kg	
541-73-1	1,3-Dichlorobenzene	66 U	160	66	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	66 U	160	66	22	ug/kg	
91-94-1	3,3'-Dichlorohenzidine	66 U	160	66	39	ug/kg	
84-66-2	Diethyl Phthalate	110 U	330	110	33	ug/kg	
131-11-3	Dimethyl Phthalate	66 U	160	66	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	66 U	160	66	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	110 U	330	110	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	160	33	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	160	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	160	33	16	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	110 U	330	110	33	ug/kg	
206-44-0	Fluoranthene	33 U	160	33	16	ug/kg	
86-73-7	Fluorene	33 U	160	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	160	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	66 U	160	66	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	66 U	160	66	33	ug/kg	
67-72-1	Hexachloroethane	66 U	160	66	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	160	33	20	ug/kg	
78-59-1	Isophorone	33 U	160	33	16	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	160	33	16	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	160	33	16	ug/kg	
91-20-3	Naphthalene	33 U	160	33	16	ug/kg	
88-74-4	2-Nitroaniline	66 U	160	66	38	ug/kg	
99-09-2	3-Nitroaniline	66 U	160	66	19	ug/kg	
100-01-6	4-Nitroaniline	66 U	160	66	47	ug/kg	
98-95-3	Nitrobenzene	33 U	160	33	16	ug/kg	
62-75-9	N-Nitrosodimethylamine	66 U	160	66	27	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	160	33	16	ug/kg	
86-30-6	N-Nitrosodiphenylamine	66 U	160	66	18	ug/kg	
85-01-8	Phenanthrene	33 U	160	33	16	ug/kg	
129-00-0	Pyrene	33 U	160	33	19	ug/kg	
110-86-1	Pyridine	110 U J	330	110	66	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	160	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SB1-SO-11	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-8	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%		40-102%
4165-62-2	Phenol-d5	117% ^b		41-100%
118-79-6	2,4,6-Tribromophenol	74%		42-108%
4165-60-0	Nitrobenzene-d5	67%		40-105%
321-60-8	2-Fluorobiphenyl	73%		43-107%
1718-51-0	Terphenyl-d14	78%		45-119%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB1-SO-11

Lab Sample ID: FA41762-8

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8151A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053862.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^b	CC054001.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2	15.2 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U ^J	33	17	8.5	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.3	1.7	0.94	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.3	1.7	0.86	ug/kg	
1918-00-9	Dicamba	1.7 U	3.3	1.7	0.78	ug/kg	
88-85-7	Dinoseb	33 U	83	33	17	ug/kg	
75-99-0	Dalapon	67 U	170	67	33	ug/kg	
120-36-5	Dichloroprop	17 U	33	17	8.3	ug/kg	
94-82-6	2,4-DB	17 U	33	17	8.6	ug/kg	
93-65-2	MCP	1700 U	3300	1700	850	ug/kg	
94-74-6	MCPA	2500 U	3300	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.7 U	3.3	1.7	0.70	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	5% ^c	62%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB1-SO-11

Lab Sample ID: FA41762-8

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8081B SW846 3546

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82037.D	1	03/12/17	MV	03/10/17	OP64125	GKK2631
Run #2							

	Initial Weight	Final Volume
Run #1	14.8 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.84 U	1.7	0.84	0.53	ug/kg	
319-84-6	alpha-BHC	0.84 U	1.7	0.84	0.53	ug/kg	
319-85-7	beta-BHC	0.84 U	1.7	0.84	0.50	ug/kg	
319-86-8	delta-BHC	0.84 U	1.7	0.84	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.84 U	1.7	0.84	0.51	ug/kg	
5103-71-9	alpha-Chlordane	0.84 U	1.7	0.84	0.53	ug/kg	
5103-74-2	gamma-Chlordane	0.84 U	1.7	0.84	0.49	ug/kg	
60-57-1	Dieldrin	0.84 U	1.7	0.84	0.47	ug/kg	
72-54-8	4,4'-DDD	0.84 U	3.4	0.84	0.47	ug/kg	
72-55-9	4,4'-DDE	0.84 U	3.4	0.84	0.61	ug/kg	
50-29-3	4,4'-DDT	0.84 U	3.4	0.84	0.52	ug/kg	
72-20-8	Endrin	1.7 U	3.4	1.7	0.85	ug/kg	
1031-07-8	Endosulfan sulfate	0.84 U	3.4	0.84	0.45	ug/kg	
7421-93-4	Endrin aldehyde	0.84 U	3.4	0.84	0.39	ug/kg	
53494-70-5	Endrin ketone	0.84 U	3.4	0.84	0.53	ug/kg	
959-98-8	Endosulfan-I	0.84 U	1.7	0.84	0.39	ug/kg	
33213-65-9	Endosulfan-II	0.84 U	1.7	0.84	0.40	ug/kg	
76-44-8	Heptachlor	0.84 U	1.7	0.84	0.50	ug/kg	
1024-57-3	Heptachlor epoxide	0.84 U	1.7	0.84	0.50	ug/kg	
72-43-5	Methoxychlor ^b	1.7 U J	3.4	1.7	0.68	ug/kg	
8001-35-2	Toxaphene	42 U	84	42	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		50-122%
2051-24-3	Decachlorobiphenyl	112%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Associated CCV and BS outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB1-SO-11

Lab Sample ID: FA41762-8

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8082A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39640.D	1	03/10/17	NJ	03/09/17	OP64110	GMM763
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.7	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.4	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.4	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.7	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.7	ug/kg	
11097-69-1	Aroclor 1254	12 U	17	12	6.7	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		44-126%
2051-24-3	Decachlorobiphenyl	79%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
 LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB1-SO-11

Lab Sample ID: FA41762-8

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: n/a^a

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	3550	49	12	2.1	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Antimony ^b	0.081 J	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Arsenic ^b	2.0	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Barium	103	9.7	4.9	0.97	mg/kg	200	03/17/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Beryllium ^b	0.20 J	0.49	0.24	0.052	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cadmium ^b	0.24 U	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Calcium	121000	970	490	70	mg/kg	200	03/17/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Chromium ^b	2.8	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cobalt ^b	1.4	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Copper ^b	1.5	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Iron ^b	2430	49	12	3.8	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Lead ^b	2.0	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Magnesium ^b	7490	49	24	2.5	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Manganese ^b	24.0	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Mercury	0.015 U	0.038	0.015	0.0038	mg/kg	1	03/14/17	03/14/17	JL	SW846 7471B ¹ SW846 7471B ⁴
Nickel ^b	4.0	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Potassium ^b	447	49	24	3.2	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Selenium ^b	1.5	0.49	0.24	0.087	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Silver ^b	0.24 U	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Sodium ^b	606	49	24	2.3	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Thallium ^b	0.24 U	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Vanadium ^b	8.2	0.49	0.24	0.049	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Zinc ^b	12.7 J	0.49	0.24	0.14	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵

(1) Instrument QC Batch: MA13891

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31783

(5) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

(b) (6)

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB2-SO-12

Lab Sample ID: FA41762-9A

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8260B

Percent Solids: 93.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	2B2292.D	I	03/04/17	SP	n/a	n/a	V2B77
Run #2							

	Initial Weight	Final Volume
Run #1	5.45 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	25 U ^J	49	25	9.9	ug/kg	
71-43-2	Benzene	2.0 U	4.9	2.0	1.2	ug/kg	
108-86-1	Bromobenzene	2.0 U	4.9	2.0	0.99	ug/kg	
74-97-5	Bromochloromethane	2.0 U	4.9	2.0	1.5	ug/kg	
75-27-4	Bromodichloromethane	2.0 U	4.9	2.0	0.99	ug/kg	
75-25-2	Bromoform	2.0 U	4.9	2.0	0.99	ug/kg	
78-93-3	2-Butanone (MEK) ^b	15 U	25	15	7.2	ug/kg	
104-51-8	n-Butylbenzene	2.0 U	4.9	2.0	0.99	ug/kg	
135-98-8	sec-Butylbenzene	2.0 U	4.9	2.0	0.99	ug/kg	
98-06-6	tert-Butylbenzene	2.0 U	4.9	2.0	0.99	ug/kg	
75-15-0	Carbon Disulfide	2.0 U	4.9	2.0	0.99	ug/kg	
56-23-5	Carbon Tetrachloride	2.0 U	4.9	2.0	1.0	ug/kg	
108-90-7	Chlorobenzene	2.0 U	4.9	2.0	0.99	ug/kg	
75-00-3	Chloroethane	3.5 U	4.9	3.5	2.0	ug/kg	
67-66-3	Chloroform	2.0 U	4.9	2.0	1.3	ug/kg	
95-49-8	o-Chlorotoluene	2.0 U	4.9	2.0	0.99	ug/kg	
106-43-4	p-Chlorotoluene	2.0 U	4.9	2.0	0.99	ug/kg	
124-48-1	Dibromochloromethane	2.0 U	4.9	2.0	0.99	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	3.5 U	4.9	3.5	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	2.0 U	4.9	2.0	0.99	ug/kg	
75-71-8	Dichlorodifluoromethane	3.5 U	4.9	3.5	2.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	2.0 U	4.9	2.0	0.99	ug/kg	
541-73-1	1,3-Dichlorobenzene	2.0 U	4.9	2.0	0.99	ug/kg	
106-46-7	1,4-Dichlorobenzene	2.0 U	4.9	2.0	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	2.0 U	4.9	2.0	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	2.0 U	4.9	2.0	0.99	ug/kg	
75-35-4	1,1-Dichloroethylene	2.0 U	4.9	2.0	0.99	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	2.0 U	4.9	2.0	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	2.0 U	4.9	2.0	0.99	ug/kg	
78-87-5	1,2-Dichloropropane	2.0 U	4.9	2.0	0.99	ug/kg	
142-28-9	1,3-Dichloropropane	2.0 U	4.9	2.0	0.99	ug/kg	
594-20-7	2,2-Dichloropropane	2.0 U ^N	4.9	2.0	0.99	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB2-SO-12	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-9A	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	93.0
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	2.0 U ^J	4.9	2.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	2.0 U	4.9	2.0	0.99	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	2.0 U	4.9	2.0	0.99	ug/kg	
100-41-4	Ethylbenzene	2.0 U	4.9	2.0	0.99	ug/kg	
87-68-3	Hexachlorobutadiene	2.0 U	4.9	2.0	1.3	ug/kg	
591-78-6	2-Hexanone	15 U	25	15	7.4	ug/kg	
98-82-8	Isopropylbenzene	2.0 U	4.9	2.0	0.99	ug/kg	
99-87-6	p-Isopropyltoluene	2.0 U	4.9	2.0	0.99	ug/kg	
74-83-9	Methyl Bromide	3.5 U	4.9	3.5	2.0	ug/kg	
74-87-3	Methyl Chloride	3.5 U	4.9	3.5	2.0	ug/kg	
74-95-3	Methylene Bromide	2.0 U	4.9	2.0	0.99	ug/kg	
75-09-2	Methylene Chloride	4.9 U	9.9	4.9	3.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	15 U	25	15	7.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	2.0 U	4.9	2.0	0.99	ug/kg	
91-20-3	Naphthalene	3.5 U	4.9	3.5	2.0	ug/kg	
103-65-1	n-Propylbenzene	2.0 U	4.9	2.0	0.99	ug/kg	
100-42-5	Styrene	2.0 U	4.9	2.0	0.99	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	2.0 U	4.9	2.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U	4.9	2.0	0.99	ug/kg	
127-18-4	Tetrachloroethylene	2.0 U	4.9	2.0	1.3	ug/kg	
108-88-3	Toluene	2.0 U	4.9	2.0	0.99	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	3.5 U	4.9	3.5	1.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	3.5 U	4.9	3.5	0.99	ug/kg	
71-55-6	1,1,1-Trichloroethane	2.0 U	4.9	2.0	0.99	ug/kg	
79-00-5	1,1,2-Trichloroethane	2.0 U	4.9	2.0	0.99	ug/kg	
79-01-6	Trichloroethylene	2.0 U	4.9	2.0	0.99	ug/kg	
75-69-4	Trichlorofluoromethane	3.5 U	4.9	3.5	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	3.5 U	4.9	3.5	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	2.0 U	4.9	2.0	0.99	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	2.0 U	4.9	2.0	0.99	ug/kg	
108-05-4	Vinyl Acetate ^c	20 U	25	20	16	ug/kg	
75-01-4	Vinyl Chloride	2.0 U	4.9	2.0	0.99	ug/kg	
	m,p-Xylene	3.9 U	9.9	3.9	1.1	ug/kg	
95-47-6	o-Xylene	2.0 U ^V	4.9	2.0	0.99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dihromofluoromethane	102%		75-124%
17060-07-0	1,2-Dichloroethane-D4	108%		72-135%
2037-26-5	Toluene-D8	100%		75-126%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SB2-SO-12	
Lab Sample ID:	FA41762-9A	Date Sampled: 03/03/17
Matrix:	SO - Soil	Date Received: 03/04/17
Method:	SW846 8260B	Percent Solids: 93.0
Project:	Far East Dump Site, Fort Bliss, TX	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		71-133%

- (a) Pre-weighed vials were altered in the field; sample weights are estimated.
(b) Associated BS recovery outside control limits.
(c) Associated CCV outside control limits.

U = Not detected LOD = Limit of Detection J = Indicates an estimated value
LOQ = Limit of Quantitation DL = Detection Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB2-SO-12

Lab Sample ID: FA41762-9

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052843.D	1	03/13/17	NG	03/09/17	OP64104	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	830	330	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	170	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	170	33	20	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	170	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	66 U	170	66	44	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	830	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	66	ug/kg	
95-48-7	2-Methylphenol	33 U	170	33	20	ug/kg	
	3&4-Methylphenol	66 U	170	66	27	ug/kg	
88-75-5	2-Nitrophenol	33 U	170	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	830	330	170	ug/kg	
87-86-5	Pentachlorophenol	330 U	830	330	170	ug/kg	
108-95-2	Phenol	33 U	170	33	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	170	33	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	170	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	170	33	18	ug/kg	
208-96-8	Acenaphthylene	33 U	170	33	17	ug/kg	
62-53-3	Aniline	66 U	170	66	35	ug/kg	
120-12-7	Anthracene	33 U	170	33	19	ug/kg	
92-87-5	Benzidine	830 U J	1700	830	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	170	33	17	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	170	33	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	170	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	170	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	170	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	170	33	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	170	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	66 U	170	66	33	ug/kg	
86-74-8	Carbazole	33 U	170	33	23	ug/kg	
106-47-8	4-Chloroaniline	66 U	170	66	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	170	33	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SB2-SO-12

Lab Sample ID: FA41762-9

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8270D SW846 3550C

Percent Solids: n/a^a

Project: Far East Dump Site, Fort Bliss, TX

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	170	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	170	33	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	170	33	17	ug/kg	
218-01-9	Chrysene	33 U	170	33	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	33 U	170	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	170	33	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	66 U	170	66	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	66 U	170	66	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	66 U	170	66	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	66 U	170	66	39	ug/kg	
84-66-2	Diethyl Phthalate	120 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	66 U	170	66	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	66 U	170	66	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	66	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	170	33	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	170	33	21	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	170	33	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	170	33	17	ug/kg	
86-73-7	Fluorene	33 U	170	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	170	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	66 U	170	66	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	66 U	170	66	33	ug/kg	
67-72-1	Hexachloroethane	66 U	170	66	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	170	33	20	ug/kg	
78-59-1	Isophorone	33 U	170	33	17	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-20-3	Naphthalene	33 U	170	33	17	ug/kg	
88-74-4	2-Nitroaniline	66 U	170	66	38	ug/kg	
99-09-2	3-Nitroaniline	66 U	170	66	19	ug/kg	
100-01-6	4-Nitroaniline	66 U	170	66	48	ug/kg	
98-95-3	Nitrobenzene	33 U	170	33	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	66 U	170	66	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	170	33	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	66 U	170	66	18	ug/kg	
85-01-8	Phenanthrene	33 U	170	33	17	ug/kg	
129-00-0	Pyrene	33 U	170	33	19	ug/kg	
110-86-1	Pyridine	120 U	330	120	66	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	170	33	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SB2-SO-12	Date Sampled:	03/03/17
Lab Sample ID:	FA41762-9	Date Received:	03/04/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		40-102%
4165-62-2	Phenol-d5	106% ^b		41-100%
118-79-6	2,4,6-Tribromophenol	68%		42-108%
4165-60-0	Nitrobenzene-d5	69%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	73%		45-119%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB2-SO-12

Lab Sample ID: FA41762-9

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8151A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053863.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^b	CC054002.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2	15.5 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	16 U J	33	16	8.4	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.6 U	3.3	1.6	0.92	ug/kg	
93-76-5	2,4,5-T	1.6 U	3.3	1.6	0.84	ug/kg	
1918-00-9	Dicamba	1.6 U	3.3	1.6	0.76	ug/kg	
88-85-7	Dinoseb	33 U	82	33	16	ug/kg	
75-99-0	Dalapon	65 U	160	65	33	ug/kg	
120-36-5	Dichloroprop	16 U	33	16	8.1	ug/kg	
94-82-6	2,4-DB	16 U	33	16	8.5	ug/kg	
93-65-2	MCP	1600 U	3300	1600	840	ug/kg	
94-74-6	MCPA	2500 U	3300	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.6 U	3.3	1.6	0.69	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^c	58%	31-132%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Confirmation run for surrogate recoveries.

(c) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB2-SO-12

Lab Sample ID: FA41762-9

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8081B SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82038.D	1	03/12/17	MV	03/10/17	OP64125	GKK2631
Run #2							

	Initial Weight	Final Volume
Run #1	14.7 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.85 U	1.7	0.85	0.54	ug/kg	
319-84-6	alpha-BHC	0.85 U	1.7	0.85	0.54	ug/kg	
319-85-7	beta-BHC	0.85 U	1.7	0.85	0.50	ug/kg	
319-86-8	delta-BHC	0.85 U	1.7	0.85	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.85 U	1.7	0.85	0.51	ug/kg	
5103-71-9	alpha-Chlordane	0.85 U	1.7	0.85	0.53	ug/kg	
5103-74-2	gamma-Chlordane	0.85 U	1.7	0.85	0.49	ug/kg	
60-57-1	Dieldrin	0.85 U	1.7	0.85	0.48	ug/kg	
72-54-8	4,4'-DDD	0.85 U	3.4	0.85	0.47	ug/kg	
72-55-9	4,4'-DDE	0.85 U	3.4	0.85	0.62	ug/kg	
50-29-3	4,4'-DDT	0.85 U	3.4	0.85	0.52	ug/kg	
72-20-8	Endrin	1.7 U	3.4	1.7	0.86	ug/kg	
1031-07-8	Endosulfan sulfate	0.85 U	3.4	0.85	0.45	ug/kg	
7421-93-4	Endrin aldehyde	0.85 U	3.4	0.85	0.39	ug/kg	
53494-70-5	Endrin ketone	0.85 U	3.4	0.85	0.53	ug/kg	
959-98-8	Endosulfan-I	0.85 U	1.7	0.85	0.39	ug/kg	
33213-65-9	Endosulfan-II	0.85 U	1.7	0.85	0.40	ug/kg	
76-44-8	Heptachlor	0.85 U	1.7	0.85	0.50	ug/kg	
1024-57-3	Heptachlor epoxide	0.85 U	1.7	0.85	0.50	ug/kg	
72-43-5	Methoxychlor ^b	1.7 U ^J	3.4	1.7	0.68	ug/kg	
8001-35-2	Toxaphene	43 U	85	43	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	108%		50-122%
2051-24-3	Decachlorobiphenyl	121%		50-133%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Associated CCV and BS outside control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB2-SO-12

Lab Sample ID: FA41762-9

Date Sampled: 03/03/17

Matrix: SO - Soil

Date Received: 03/04/17

Method: SW846 8082A SW846 3546

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39641.D	1	03/10/17	NJ	03/09/17	OP64110	GMM763
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.7	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.4	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.4	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.7	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.7	ug/kg	
11097-69-1	Aroclor 1254	12 U	17	12	6.7	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		44-126%
2051-24-3	Decachlorobiphenyl	83%		41-145%

(a) Sample air dried prior to analysis; percent solids reported as 100%.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB2-SO-12

Lab Sample ID: FA41762-9

Matrix: SO - Soil

Date Sampled: 03/03/17

Date Received: 03/04/17

Percent Solids: n/a ^a

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^b	3620	50	13	2.2	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Antimony ^b	0.070 J	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Arsenic ^b	2.1	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Barium	108	10	5.0	1.0	mg/kg	200	03/17/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Beryllium ^b	0.18 J	0.50	0.25	0.054	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cadmium ^b	0.25 U	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Calcium	144000	1000	500	72	mg/kg	200	03/17/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Chromium ^b	2.4	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cobalt ^b	1.5	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Copper ^b	0.84	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Iron ^h	2180	50	13	4.0	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Lead ^b	2.1	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Magnesium ^b	6370	50	25	2.6	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Manganese ^b	24.6	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Mercury	0.016 U	0.040	0.016	0.0040	mg/kg	1	03/14/17	03/14/17	JL	SW846 7471B ¹ SW846 7471B ⁴
Nickel ^b	4.7	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Potassium ^h	353	50	25	3.3	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Selenium ^b	1.4	0.50	0.25	0.090	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Silver ^b	0.25 U	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Sodium ^b	500	50	25	2.4	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Thallium ^b	0.25 U	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Vanadium ^b	7.7	0.50	0.25	0.050	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Zinc ^b	7.3 J	0.50	0.25	0.15	mg/kg	10	03/17/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵

(1) Instrument QC Batch: MA13891

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31783

(5) Prep QC Batch: MP31807

(a) Sample air dried prior to analysis; percent solids reported as 100%.

(b) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result ≥ DL (MDL) but < LOQ



NELAP CERTIFICATE NUMBER: 01955
DOD ELAP CERTIFICATE NUMBER: L14-243

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 03/14/2017

GCAL Report 217030719



Project FA41762X

Deliver To

Andrea Colby
SGS
4405 Vineyard Rd. C
Orlando, FL 32811
386-615-8479

Additional Recipients

NONE



Case Narrative

Client: SGS - Orlando **Report:** 217030719

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found for the analyzed sample(s).



1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217030719</u>	Client Sample ID: <u>FEIDS-SS5-SO-05</u>
Collect Date: <u>03/03/17</u> Time: <u>0815</u>	GCAL Sample ID: <u>21703071901</u>
Matrix: <u>Solid</u> % Moisture: <u>4.5</u>	Instrument ID: <u>GCS20A</u>
Sample Amt: <u>10.1</u> g	Lab File ID: <u>2170310/sv20a007</u>
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>
Prep Date: <u>03/09/17</u>	Analysis Date: <u>03/10/17</u> Time: <u>1158</u>
Prep Batch: <u>605819</u>	Analytical Batch: <u>606154</u>
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	33.2	U	4.51	33.2	51.8
GCSV-05-03	>C28-C35	33.2	U	4.51	33.2	51.8
GCSV-05-01	C6-C12	14.5	U	4.61	14.5	51.8
GCSV-05-04	TOTAL TPH (C6-C35)	33.2	U	4.51	33.2	51.8

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217030719</u>	Client Sample ID: <u>FEIDS-SS6-SO-06</u>	
Collect Date: <u>03/03/17</u> Time: <u>0945</u>	GCAL Sample ID: <u>21703071902</u>	
Matrix: <u>Solid</u> % Moisture: <u>1.3</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10.3</u> g	Lab File ID: <u>2170310/sv20a010</u>	
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/09/17</u>	Analysis Date: <u>03/10/17</u> Time: <u>1339</u>	
Prep Batch: <u>605819</u>	Analytical Batch: <u>606154</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	31.5	U	4.28	31.5	49.2
GCSV-05-03	>C28-C35	31.5	U	4.28	31.5	49.2
GCSV-05-01	C6-C12	13.8	U	4.38	13.8	49.2
GCSV-05-04	TOTAL TPH (C6-C35)	31.5	U	4.28	31.5	49.2

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217030719</u>	Client Sample ID: <u>FEIDS-SS7-SO-07</u>	
Collect Date: <u>03/03/17</u> Time: <u>1055</u>	GCAL Sample ID: <u>21703071903</u>	
Matrix: <u>Solid</u> % Moisture: <u>15.7</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10</u> g	Lab File ID: <u>2170310/sv20a011</u>	
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/09/17</u>	Analysis Date: <u>03/10/17</u> Time: <u>1416</u>	
Prep Batch: <u>605819</u>	Analytical Batch: <u>606154</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	38.0	U	5.16	38.0	59.3
GCSV-05-03	>C28-C35	38.0	U	5.16	38.0	59.3
GCSV-05-01	C6-C12	16.6	U	5.28	16.6	59.3
GCSV-05-04	TOTAL TPH (C6-C35)	38.0	U	5.16	38.0	59.3

FORM | ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217030719</u>	Client Sample ID: <u>FEIDS-SS8-SO-08</u>	
Collect Date: <u>03/03/17</u> Time: <u>1215</u>	GCAL Sample ID: <u>21703071904</u>	
Matrix: <u>Solid</u> % Moisture: <u>17.5</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10</u> g	Lab File ID: <u>2170310/sv20a012</u>	
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/09/17</u>	Analysis Date: <u>03/10/17</u> Time: <u>1451</u>	
Prep Batch: <u>605819</u>	Analytical Batch: <u>606154</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	38.8	U	5.28	38.8	60.6
GCSV-05-03	>C28-C35	38.8	U	5.28	38.8	60.6
GCSV-05-01	C6-C12	17.0	U	5.40	17.0	60.6
GCSV-05-04	TOTAL TPH (C6-C35)	38.8	U	5.28	38.8	60.6

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: 217030719	Client Sample ID: FEIDS-SS9-SO-09
Collect Date: 03/03/17 Time: 1340	GCAL Sample ID: 21703071905
Matrix: Solid % Moisture: 1.9	Instrument ID: GCS20A
Sample Amt: 10 g	Lab File ID: 2170310/sv20a013
Injection Vol.: 1.0 (µL)	GC Column: DB-5MS-30M ID .25 (mm)
Prep Final Vol.: 10000 (µL)	Dilution Factor: 1 Analyst: MEF2
Prep Date: 03/09/17	Analysis Date: 03/10/17 Time: 1521
Prep Batch: 605819	Analytical Batch: 606154
Prep Method: TX1005 PREP	Analytical Method: TX1005

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	32.6	U	4.44	32.6	51.0
GCSV-05-03	>C28-C35	32.6	U	4.44	32.6	51.0
GCSV-05-01	C6-C12	14.3	U	4.54	14.3	51.0
GCSV-05-04	TOTAL TPH (C6-C35)	32.6	U	4.44	32.6	51.0

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: 217030719	Client Sample ID: FEIDS-SS10-SO-10
Collect Date: 03/03/17 Time: 1455	GCAL Sample ID: 21703071906
Matrix: Solid % Moisture: 2.8	Instrument ID: GCS20A
Sample Amt: 10 g	Lab File ID: 2170310/sv20a017
Injection Vol.: 1.0 (µL)	GC Column: DB-5MS-30M ID .25 (mm)
Prep Final Vol.: 10000 (µL)	Dilution Factor: 1 Analyst: MEF2
Prep Date: 03/09/17	Analysis Date: 03/10/17 Time: 1739
Prep Batch: 605819	Analytical Batch: 606154
Prep Method: TX1005 PREP	Analytical Method: TX1005

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	32.9	U	4.48	32.9	51.4
GCSV-05-03	>C28-C35	32.9	U	4.48	32.9	51.4
GCSV-05-01	C6-C12	14.4	U	4.58	14.4	51.4
GCSV-05-04	TOTAL TPH (C6-C35)	32.9	U	4.48	32.9	51.4

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: 217030719	Client Sample ID: FEIDS-SB1-SO-11
Collect Date: 03/03/17 Time: 1540	GCAL Sample ID: 21703071907
Matrix: Solid % Moisture: 7.4	Instrument ID: GCS20A
Sample Amt: 10.5 g	Lab File ID: 2170310/sv20a018
Injection Vol.: 1.0 (µL)	GC Column: DB-5MS-30M ID .25 (mm)
Prep Final Vol.: 10000 (µL)	Dilution Factor: 1 Analyst: MEF2
Prep Date: 03/09/17	Analysis Date: 03/10/17 Time: 1816
Prep Batch: 605819	Analytical Batch: 606154
Prep Method: TX1005 PREP	Analytical Method: TX1005

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	32.9	U	4.47	32.9	51.4
GCSV-05-03	>C28-C35	32.9	U	4.47	32.9	51.4
GCSV-05-01	C6-C12	14.4	U	4.58	14.4	51.4
GCSV-05-04	TOTAL TPH (C6-C35)	32.9	U	4.47	32.9	51.4

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217030719</u>	Client Sample ID: <u>FEIDS-SB2-SO-12</u>	
Collect Date: <u>03/03/17</u> Time: <u>1610</u>	GCAL Sample ID: <u>21703071908</u>	
Matrix: <u>Solid</u> % Moisture: <u>6.4</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10</u> g	Lab File ID: <u>2170310/sv20a019</u>	
Injection Vol.: <u>1.0</u> (μ L)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (μ L)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/09/17</u>	Analysis Date: <u>03/10/17</u> Time: <u>1850</u>	
Prep Batch: <u>605819</u>	Analytical Batch: <u>606154</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	34.2	U	4.65	34.2	53.4
GCSV-05-03	>C28-C35	34.2	U	4.65	34.2	53.4
GCSV-05-01	C6-C12	15.0	U	4.75	15.0	53.4
GCSV-05-04	TOTAL TPH (C6-C35)	34.2	U	4.65	34.2	53.4

FORM I ORG-1

(b) (6)

SDG FA41805

ATTACHMENT 1

CHAIN OF CUSTODY FORMS



CAPE ENVIRONMENTAL MANAGEMENT INC
BLOSSOM BUSINESS CENTER
12037 STARCREST DRIVE
SAN ANTONIO, TX 78247

CHAIN-OF-CUSTODY RECORD

Page #1 of 3

FA41805

(If no box checked use routine)
☒ Routine
☐ Urgent
☐ EMERGENCY

3 coolers

Chain of Custody Number FEIDS03		Project Manager (Print) Mike Bowlby		CAPE Project Manager (Print) Ben Shivar		Laboratory SGS ACCUTEST												
Contractor CAPE		Project Name ER services at Four IRP Sites and Military Munitions Program sites at Fort Bliss		Sampler's Name (Print) Seth Moorehead		Laboratory Contract Number												
ERPIMS Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Site(s) Far East Illegal Dump Site		(b) (6)		ANALYSES REQUESTED												
Sample Number LNNNNNNNN	Station Number LLNNNLLNN N	Sample Type (E-11) See VVL	Sample Matrix (E-17) See VVL	Sample Method (E-23) See VVL	Begin Depth NN.N	End Depth NN.N	Date dd mm yy NN LLL NN	Time 24 HR NNNN	Field Lot Number NNNL	Num ber of Con ta in er s N	TCL VOCs (503/8260)	TCL SVOCs (3541/8270)	TAL Metals (6020/7000)	TCL Pesticides (3541/8081)	TCL Herbicides (3550/8151)	PCBs (3541/8082)	TPH (1005/1006)	See Notes
1 FEIDS-TB-03	--	TB-1	WQ	NA	--	--	06MAR17	0600	001A	2	X							
2 FEIDS-583-50-13 Grid 3		N-1	SO	G	2.0	3.0	06MAR17	0855	000A	6	X	X	X	X	X	X	X	
3 FEIDS-584-50-14 Grid 4		N-1	SO	G	2.0	3.0	06MAR17	0915	000A	6	X	X	X	X	X	X	X	
4 FEIDS-585-50-15 Grid 4		N-1	SO	G	2.0	3.0	06MAR17	0915	000A	6	X	X	X	X	X	X	X	
5 FEIDS-586-50-16 Grid 5		N-1	SO	G	2.0	3.0	06MAR17	1015	000A	6	X	X	X	X	X	X	X	
6 FEIDS-587-50-17 Grid 6		N-1	SO	G	2.0	3.0	06MAR17	1030	000A	6	X	X	X	X	X	X	X	
7 FEIDS-588-50-18 Grid 7		N-1	SO	G	2.0	3.0	06MAR17	1115	000A	6	X	X	X	X	X	X	X	
8 FEIDS-589-50-19 Grid 8		N-1	SO	G	2.0	3.0	06MAR17	1130	000A	6	X	X	X	X	X	X	X	
Relinquished By (Signature) (b) (6)		Date/Time 3/6/17/1815		Received By (Signature) Fx		Date/Time		PROTOCOL (circle one) HAZWRAP <input checked="" type="checkbox"/> OTHER										
Relinquished By (Signature) Fx		Date/Time		Received By (Signature) (b) (6)		Date/Time 03/04/17 945		QC LEVEL (circle one) 1 2 3 (4) 5										
Relinquished By (Signature)		Date/Time		Received By (Signature)		Date/Time		FOR LABORATORY USE ONLY										
Sample Shipped Via (circle one): UPS <input checked="" type="checkbox"/> FED-EX <input type="checkbox"/> AIRBORNE <input type="checkbox"/> BUS <input type="checkbox"/> HAND <input type="checkbox"/> OTHER		Waybill Number:						CONDITIONS OF SAMPLES UPON RECEIPT										
								CHAIN OF CUSTODY Y N ICE										
								REQUEST FOR ANAL Y N TEMP										
								CUSTODY SEAL Y N pH										
								SAMPLE CONDITION 9.2 3.2 3.4										
REMARKS (Notes): 1) 2) Run the MATRIX SPIKE / MATRIX SPIKE DUPLICATE on: FEIDS-5514-50-24																		

FA41805: Chain of Custody

Page 1 of 6



886 of 3834
ACCUTEST
FA41805



CAPE ENVIRONMENTAL MANAGEMENT INC
BLOSSOM BUSINESS CENTER
12037 STARCREST DRIVE
SAN ANTONIO, TX 78247

CHAIN-OF-CUSTODY RECORD

Page # 2 of 3
FA41805

(If no box checked use routine)
☒ Routine
☐ Urgent
☐ EMERGENCY

3 coolers

Chain of Custody Number FEIDS03		Project Manager (Print) Mike Bowlby				CAPE Project Manager (Print) Ben Shivar				Laboratory SGS ACCUTEST								
Contractor CAPE		Project Name ER services at Four IRP Sites and Military Munitions Program sites at Fort Bliss				Sampler's Name (Print) Seth Moorehead				Laboratory Contract Number								
ERPIMS Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Site(s) Far East Illegal Dump Site				Sampler's Signature (b) (6)				ANALYSES REQUESTED								
Sample Number LNNNNNNNN	Station Number LLNNNNLNN N	Sample Type (E-21) See VVL	Sample Matrix (E-17) See VVL	Sample Method (E-23) See VVL	Begin Depth NN.N	End Depth NN.N	Date dd mm yy NN LLL NN	Time 24 HR NNNN	Field Lot Number NNNL	Number of Containers N	TCL VOCs (303/816/260)	TCL SVOCs (354/1/8270)	TAL Metals (6020/7000)	TCL Pesticides (354/1/8081)	TCL Herbicides (355/8/131)	PCBs (354/1/8082)	TPH (TX 1005/1006)	See Notes
9	FEIDS-SB11-S-20 Grid 8	N-1	SO	G	2.0	3.0	06 MAR 17	1145	000A	6	X	X	X	X	X	X	X	
10	FEIDS-SB11-S-21 Grid 9	N-1	SO	G	2.0	3.0	06 MAR 17	1210	000A	6	X	X	X	X	X	X	X	
11	FEIDS-SB11-S-22 N Grid	N-1	SO	G	0.0	0.5	06 MAR 17	1255	000A	6	X	X	X	X	X	X	X	
12	FEIDS-SB12-S-23 N Grid	N-1	SO	G	0.0	0.5	06 MAR 17	1255	000A	6	X	X	X	X	X	X	X	
13	FEIDS-SB13-S-23 S Grid 8	N-1	SO	G	0.0	0.5	06 MAR 17	1325	000A	6	X	X	X	X	X	X	X	
14	FEIDS-SB14-S-24 Background	N-1	SO	G	0.0	0.5	06 MAR 17	1416	000A	6	X	X	X	X	X	X	X	
15	FEIDS-SB12-S-25 Background	N-1	SO	G	2.0	3.0	06 MAR 17	1420	000A	6	X	X	X	X	X	X	X	
16	FEIDS-SB15-S-26 Background	N-1	SO	G	0.0	0.5	06 MAR 17	1510	000A	6	X	X	X	X	X	X	X	
Relinquished By (Signature) (b) (6)		Date/Time 03/06/17 1830	Received By (Signature) Fx		Date/Time 03/07/17 945		PROTOCOL (circle one) HAZWRAP (CPA) OTHER QC LEVEL (circle one) 1 2 3 4 5											
Relinquished By (Signature) Fx		Date/Time	Received By (Signature) (b) (6)		Date/Time		FOR LABORATORY USE ONLY CONDITIONS OF SAMPLES UPON RECEIPT CHAIN OF CUSTODY Y N ICE REQUEST FOR ANAL Y N TEMP CUSTODY SEAL Y N pH											
Sample Shipped Via (circle one): UPS FED-EX AIRBORNE BUS HAND OTHER		Waybill Number:		SAMPLE CONDITION														
REMARKS (Notes): 1) 2) Run the MATRIX SPIKE / MATRIX SPIKE DUPLICATE on: FEIDS-SB14-S-24																		

FA41805: Chain of Custody

Page 2 of 6



CAPE ENVIRONMENTAL MANAGEMENT INC
BLOSSOM BUSINESS CENTER
12037 STARCREST DRIVE
SAN ANTONIO, TX 78247

CHAIN-OF-CUSTODY RECORD

Page # 3 of 3

FA41805
(If no box checked use routine)

☒ Routine
☐ Urgent
☐ EMERGENCY

3 coolers

Chain of Custody Number FEIDS03		Project Manager (Print) Mike Bowlby		CAPE Project Manager (Print) Ben Shivar		Laboratory SGS ACCUTEST												
Contractor CAPE		Project Name ER services at Four IRP Sites and Military Munitions Program sites at Fort Bliss		Sampler's Name (Print) Seth Moorehead		Laboratory Contract Number												
ERPIMS Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Site(s) Far East Illegal Dump Site		Sampler's Signature <i>[Signature]</i>		ANALYSES REQUESTED												
Sample Number LNNNNNNNN	Station Number LLNNNNLLNN N	Sample Type (E-21) See VVL	Sample Matrix (E-17) See VVL	Sample Method (E-23) See VVL	Begin Depth NN.N	End Depth NN.N	Date dd mm yy NN LLL NN	Time 24 HR NNNN	Field Lot Number NNNL	Num ber of Conta in. N	TCL VOCs (5035/0280)	TCL SVOCs (3541/0270)	TAL Metals (6020/7000)	TCL Pesticides (3541/0011)	TCL Herbicides (3550/0111)	PCBs (3541/0022)	TPH (TX 1005/1006)	See Notes
17 FEIDS-SB13-50-27 Background 2 N-1		SO	G	2.0	3.0	06MAR17	1525	000A	6	X	X	X	X	X	X	X		
19 FEIDS-SB14-50-28 Background 3 N-1		SO	G	0.5	0.5	06MAR17	1550	000A	6	X	X	X	X	X	X	X		
19 FEIDS-SB14-50-29 Background 3 N-1		SO	G	2.0	3.0	06MAR17	1605	000A	6	X	X	X	X	X	X	X		
Relinquished By (Signature) <i>[Signature]</i>		Date/Time 03/10/17 1815	Received By (Signature) Fx		Date/Time 03/10/17 1815	PROTOCOL (circle one) HAZWAP (EPA) OTHER QC LEVEL (circle one) 1 2 3 4 5												
Relinquished By (Signature) Fx		Date/Time	Received By (Signature) <i>[Signature]</i>		Date/Time 03/10/17 1815	FOR LABORATORY USE ONLY CONDITIONS OF SAMPLES UPON RECEIPT CHAIN OF CUSTODY Y N ICE REQUEST FOR ANAL Y N TEMP CUSTODY SEAL Y N pH												
Sample Shipped Via (circle one): UPS RED-EX AIRBORNE BUS HAND OTHER		Waybill Number:		SAMPLE CONDITION														
REMARKS (Notes): 1) 2) Run the MATRIX SPIKE / MATRIX SPIKE DUPLICATE on: FEIDS 5514-50-24																		

FA41805: Chain of Custody

Page 3 of 6

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: FA41805 CLIENT: Cape Env. PROJECT: EL Services
 DATE/TIME RECEIVED: 03/07/17 945 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 3
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
 AIRBILL NUMBERS: 8113 13916 6430

COOLER INFORMATION

- ☐ CUSTODY SEAL NOT PRESENT OR NOT INTACT
- ☐ CHAIN OF CUSTODY NOT RECEIVED (COC)
- ☐ ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- ☐ SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- ☐ TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- ☒ TRIP BLANK PROVIDED
- ☐ TRIP BLANK NOT PROVIDED
- ☐ TRIP BLANK NOT ON COC
- ☒ TRIP BLANK INTACT
- ☐ TRIP BLANK NOT INTACT
- ☒ RECEIVED WATER TRIP BLANK
- ☐ RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? 20
 NUMBER OF LAB FILTERED METALS ? _____

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS: _____

TEMPERATURE INFORMATION

IR THERM ID 1 CORR. FACTOR 10.8
 OBSERVED TEMPS: 2.4 2.6 2.4
 CORRECTED TEMPS: 3.2 3.4 3.2 (USED FOR LIMS)

SAMPLE INFORMATION

- ☐ INCORRECT NUMBER OF CONTAINERS USED
- ☐ SAMPLE RECEIVED IMPROPERLY PRESERVED
- ☐ INSUFFICIENT VOLUME FOR ANALYSIS
- ☐ DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ☐ ID'S ON COC DO NOT MATCH LABEL
- ☐ VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- ☐ BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- ☐ NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- ☐ UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- ☐ SAMPLE CONTAINER(S) RECEIVED BROKEN
- ☐ 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- ☐ BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- ☐ % SOLIDS JAR NOT RECEIVED
- ☐ RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH-CAROLINA ORGANICS)

TECHNICIAN SI
 NF 02/16

(b) (6)

FA41805: Chain of Custody
 Page 4 of 6

ATTACHMENT 2

DATA SUMMARY REPORTS

SGS

ACCUTEST
Southeast

Reissue #1
04/08/17

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.

SGS

e-Hardcopy 2.0
Automated Report

Technical Report for

Cape, Inc

Far East Dump Site, Fort Bliss, TX

SGS Accutest Job Number: FA41805

Sampling Date: 03/06/17

Report to:

Cape, Inc
500 Pinnacle Ct
Norcross, GA 30071
wvermeychuk@cape-inc.com; chemistrysvcs@cape-inc.com

ATTN: Wayne Vermeychuk

Total number of pages in report: 3834



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

(b) (6)

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(L-A-B L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.



April 8, 2017

Mr. Wayne Vermeychuk
Cape Inc.
500 Pinnacle Ct
Norcross, GA 30071

RE: SGS Accutest job FA41805 Reissue

Dear Mr. Vermeychuk,

The final report for job number FA41805 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

The sample IDs have been corrected.

SGS Accutest apologies for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

SGS Accutest Orlando

Florida ♦ 4405 Vineland Road ♦ Suite C-15 ♦ Orlando, FL 32811 ♦ tel: 407 425-6700 ♦ fax: 407 425-0707 ♦ <http://www.sgs.com>



Sample Summary

Cape, Inc

Job No: FA41805

Far East Dump Site, Fort Bliss, TX

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA41805-1	03/06/17	06:00 SM	03/07/17	AQ	Trip Blank Soil	FEIDS-TB-03
FA41805-2	03/06/17	08:55 SM	03/07/17	SO	Soil	FEIDS-SB3-SO-13
FA41805-3	03/06/17	09:15 SM	03/07/17	SO	Soil	FEIDS-SB4-SO-14
FA41805-4	03/06/17	09:15 SM	03/07/17	SO	Soil	FEIDS-SB5-SO-15
FA41805-5	03/06/17	10:15 SM	03/07/17	SO	Soil	FEIDS-SB6-SO-16
FA41805-6	03/06/17	10:50 SM	03/07/17	SO	Soil	FEIDS-SB7-SO-17
FA41805-7	03/06/17	11:15 SM	03/07/17	SO	Soil	FEIDS-SB8-SO-18
FA41805-8	03/06/17	11:30 SM	03/07/17	SO	Soil	FEIDS-SB9-SO-19
FA41805-9	03/06/17	11:45 SM	03/07/17	SO	Soil	FEIDS-SB10-SO-20
FA41805-10	03/06/17	12:10 SM	03/07/17	SO	Soil	FEIDS-SB11-SO-21
FA41805-11	03/06/17	12:55 SM	03/07/17	SO	Soil	FEIDS-SS11-SO-22
FA41805-12	03/06/17	12:55 SM	03/07/17	SO	Soil	FEIDS-SS12-SO-23
FA41805-13	03/06/17	13:25 SM	03/07/17	SO	Soil	FEIDS-SS13-SO-23

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

Cape, Inc

Job No: FA41805

Far East Dump Site, Fort Bliss, TX

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA41805-14	03/06/17	14:10 SM	03/07/17	SO	Soil	FEIDS-SS14-SO-24
FA41805-14D	03/06/17	14:10 SM	03/07/17	SO	Soil Dup/MSD	FEIDS-SS14-SO-24
FA41805-14S	03/06/17	14:10 SM	03/07/17	SO	Soil Matrix Spike	FEIDS-SS14-SO-24
FA41805-15	03/06/17	14:20 SM	03/07/17	SO	Soil	FEIDS-SB12-SO-25
FA41805-16	03/06/17	15:10 SM	03/07/17	SO	Soil	FEIDS-SS15-SO-26
FA41805-17	03/06/17	15:25 SM	03/07/17	SO	Soil	FEIDS-SB13-SO-27
FA41805-18	03/06/17	15:50 SM	03/07/17	SO	Soil	FEIDS-SS16-SO-28
FA41805-19	03/06/17	16:05 SM	03/07/17	SO	Soil	FEIDS-SS14-SO-29

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: Cape, Inc

Job No: FA41805

Site: Far East Dump Site, Fort Bliss, TX

Report Date: 4/4/2017 1:44:38 PM

19 Sample(s), 1 Trip Blank(s) were collected on 03/06/2017 and were received at SGS Accutest Southeast (SASE) on 03/07/2017 properly preserved, at 3.2 Deg. C and intact. These Samples received an SASE job number of FA41805. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: VA2110

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41742-37MS, FA41742-37MSD were used as the QC samples indicated.

RPD(s) for MSD for Methyl Bromide are outside control limits for sample FA41742-37MSD. Probable cause is due to sample non-homogeneity.

Matrix: SO

Batch ID: VF2832

FA41805-14: Confirmation run. ECC ANALYZED PAST 12 HRS

Matrix: SO

Batch ID: VY1343

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41787-4MS, FA41787-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1-Dichloroethylene, 2,2-Dichloropropane, Carbon Disulfide, Carbon Tetrachloride, Hexachlorobutadiene, Isopropylbenzene, m,p-Xylene, n-Butylbenzene, n-Propylbenzene, o-Chlorotoluene, p-Chlorotoluene, p-Isopropyltoluene, sec-Butylbenzene, tert-Butylbenzene, Vinyl Chloride are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethylene are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Hexachlorobutadiene are outside control limits for sample FA41787-4MSD. Probable cause is due to sample non-homogeneity.

FA41805-2: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-3: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-4: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-5: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-6: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-7: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-8: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-9: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-10: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-11: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-12: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-15: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-16: Pre-weighed vials were altered in the field; sample weights are estimated.

Matrix: SO

Batch ID: VY1344

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41805-14MS, FA41805-14MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 2-Hexanone, 4-Methyl-2-pentanone (MIBK) are outside lab control limits. % Recoveries were above upper control limits, but samples were ND for these compounds. Recoveries were within DOD QSM5 limits.

Blank Spike Recovery(s) for Styrene are outside control lab and DOD QSM5 limits. % Recoveries were above upper control limits, but samples were ND for these compounds.

Tuesday, April 04, 2017

Page 1 of 16

Volatiles by GCMS By Method SW846 8260B

Matrix: SO

Batch ID: VY1344

Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, 1,1-Dichloroethylene, 1,1-Dichloropropane, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,3,5-Trimethylbenzene, 2,2-Dichloropropane, Carbon Disulfide, Carbon Tetrachloride, Dichlorodifluoromethane, Hexachlorobutadiene, Isopropylbenzene, m,p-Xylene, n-Butylbenzene, n-Propylbenzene, o-Chlorotoluene, p-Chlorotoluene, p-Isopropyltoluene, sec-Butylbenzene, tert-Butylbenzene, Trichloroethylene, Trichlorofluoromethane, Vinyl Acetate, Vinyl Chloride are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethylene, 2,2-Dichloropropane, Carbon Tetrachloride, Hexachlorobutadiene, Isopropylbenzene, n-Propylbenzene, p-Isopropyltoluene, sec-Butylbenzene, tert-Butylbenzene, Vinyl Acetate are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Vinyl Acetate are outside control limits for sample FA41805-14MSD. Probable cause is due to sample non-homogeneity.

For Sample(s) FA41805-14, FA41805-17, FA41805-18, FA41805-19 are associated with a blank spike that has a recovery for Styrene outside DOD QSM control limits.

FA41805-14: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-14 for 2-Hexanone: Associated BS recovery outside control limits.

FA41805-14 for 4-Methyl-2-pentanone (MIBK): Associated BS recovery outside control limits.

FA41805-17: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-17 for 4-Methyl-2-pentanone (MIBK): Associated BS recovery outside control limits.

FA41805-17 for 2-Hexanone: Associated BS recovery outside control limits.

FA41805-18: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-18 for 2-Hexanone: Associated BS recovery outside control limits.

FA41805-18 for 4-Methyl-2-pentanone (MIBK): Associated BS recovery outside control limits.

FA41805-19: Pre-weighed vials were altered in the field; sample weights are estimated.

FA41805-19 for 2-Hexanone: Associated BS recovery outside control limits.

FA41805-19 for 4-Methyl-2-pentanone (MIBK): Associated BS recovery outside control limits.

Matrix: SO

Batch ID: VY1345

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41805-13MS, FA41805-13MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1-Dichloroethylene, 2,2-Dichloropropane, Carbon Tetrachloride, Hexachlorobutadiene, sec-Butylbenzene, tert-Butylbenzene, Vinyl Acetate are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethylene, Hexachlorobutadiene, sec-Butylbenzene, tert-Butylbenzene, Vinyl Acetate are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for 2-Butanone (MEK), Acetone, Vinyl Acetate are outside control limits for sample FA41805-13MSD. Probable cause is due to sample non-homogeneity.

FA41805-13: Pre-weighed vials were altered in the field; sample weights are estimated.

Extractables by GCMS By Method SW846 8270D

Matrix: SO

Batch ID: OP64127

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41805-14MS, FA41805-14MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for bis(2-Ethylhexyl)phthalate, Di-n-octyl Phthalate, Isophorone are outside control limits. % Recoveries were within DOD QSM control limits.

Matrix Spike Recovery(s) for Benzidine, Benzoic Acid, bis(2-Ethylhexyl)phthalate, Isophorone are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Benzidine, Benzoic Acid, bis(2-Ethylhexyl)phthalate, Isophorone are outside control limits. Probable cause is due to matrix interference.

Sample(s) FA41805-10, FA41805-11, FA41805-12, FA41805-13, FA41805-14, FA41805-15, FA41805-2, FA41805-3, FA41805-4, FA41805-5, FA41805-6, FA41805-7, FA41805-8, FA41805-9, OP64127-BS, OP64127-MB, OP64127-MS, OP64127-MSD OP64167-MSD have surrogates outside control limits.

OP64127-MB for Phenol-d5: Outside control limits.

OP64127-BS for Phenol-d5: Outside control limits.

OP64127-MS for Phenol-d5: Outside control limits.

OP64127-MSD for Phenol-d5: Outside control limits.

Tuesday, April 04, 2017

Page 2 of 16

Extractables by GCMS By Method SW846 8270D

Matrix: SO

Batch ID: OP64127

FA41805-2 for Phenol-d5: Outside control limits.
FA41805-3 for Phenol-d5: Outside control limits.
FA41805-4 for Phenol-d5: Outside control limits.
FA41805-5 for Phenol-d5: Outside control limits.
FA41805-6 for Phenol-d5: Outside control limits.
FA41805-7 for Phenol-d5: Outside control limits.
FA41805-8 for Pyridine: Associated CCV outside control limits.
FA41805-8 for Phenol-d5: Outside control limits.
FA41805-9 for Phenol-d5: Outside control limits.
FA41805-10 for Phenol-d5: Outside control limits.
FA41805-11 for Phenol-d5: Outside control limits.
FA41805-12 for Phenol-d5: Outside control limits.
FA41805-13 for Phenol-d5: Outside control limits.
FA41805-14 for Phenol-d5: Outside control limits.
FA41805-14 for Pyridine: Associated CCV outside control limits.
FA41805-15 for Phenol-d5: Outside control limits.

Matrix: SO

Batch ID: OP64167

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA41940-3MS, FA41940-3MSD were used as the QC samples indicated.
Matrix Spike Duplicate Recovery(s) for Benzoic Acid are outside control limits. Probable cause is due to matrix interference.
Sample(s) FA41805-16, FA41805-17, FA41805-18, OP64167-BS, OP64167-MB, OP64167-MS, OP64167-MSD have surrogates outside control limits.
OP64167-MB for Phenol-d5: Outside control limits.
OP64167-BS for Phenol-d5: Outside control limits.
OP64167-BS for Phenol-d5: Outside control limits.
OP64167-MS for Phenol-d5: Outside control limits.
OP64167-MSD for Phenol-d5: Outside control limits.
FA41805-16 for Pyridine: Associated CCV outside control limits.
FA41805-16 for Phenol-d5: Outside control limits.
FA41805-17 for Pyridine: Associated CCV outside control limits.
FA41805-17 for Phenol-d5: Outside control limits.
FA41805-18 for Pyridine: Associated CCV outside control limits.
FA41805-18 for Phenol-d5: Outside control limits.

Matrix: SO

Batch ID: OP64194

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA41983-7MS, FA41983-7MSD were used as the QC samples indicated.
Blank Spike Recovery(s) for 3,3'-Dichlorobenzidine are outside lab and DOD QSM control limits. % Recovery was above upper control limit, but sample was ND for this compound.
Matrix Spike Recovery(s) for 3,3'-Dichlorobenzidine, 4-Nitroaniline, Anthracene, Fluoranthene are outside control limits. Probable cause is due to matrix interference.
Matrix Spike Duplicate Recovery(s) for 4-Nitroaniline, Anthracene, Benzo(k)fluoranthene, Carbazole, Fluoranthene are outside control limits. Probable cause is due to matrix interference.
RPD(s) for MSD for 3,3'-Dichlorobenzidine, Pyrene are outside control limits for sample OP64194-MSD1. Probable cause is due to sample non-homogeneity.
For Sample(s) FA41805-19 are associated with an ICV that has a recovery for 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, Benzidine outside control limits.

Tuesday, April 04, 2017

Page 3 of 16

Extractables by GC By Method SW846 8081B

Matrix: SO

Batch ID: OP64125

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41845-IMS, FA41845-IMSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Methoxychlor are outside lab control limits. % Recovery was within DOD QSM5 control limits.

FA41805-2 for Methoxychlor: Associated CCV and BS outside control limits.

FA41805-3 for delta-BHC: Associated CCV outside control limits.

FA41805-3 for gamma-Chlordane: Associated CCV outside control limits.

FA41805-3 for Endrin ketone: Associated CCV outside control limits.

FA41805-3 for Endrin: Associated CCV outside control limits.

FA41805-3 for Endosulfan-II: Associated CCV outside control limits.

FA41805-3 for Heptachlor epoxide: Associated CCV outside control limits.

FA41805-3 for Endosulfan sulfate: Associated CCV outside control limits.

FA41805-3 for Dieldrin: Associated CCV outside control limits.

FA41805-3 for 4,4'-DDT: Associated CCV outside control limits.

FA41805-3 for Endrin aldehyde: Associated CCV outside control limits.

FA41805-3 for beta-BHC: Associated CCV outside control limits.

FA41805-3 for alpha-Chlordane: Associated CCV outside control limits.

FA41805-3 for 4,4'-DDD: Associated CCV outside control limits.

FA41805-3 for Methoxychlor: Associated CCV and BS outside control limits.

FA41805-3 for 4,4'-DDE: Associated CCV outside control limits.

FA41805-4 for 4,4'-DDT: Associated CCV outside control limits.

FA41805-4 for gamma-Chlordane: Associated CCV outside control limits.

FA41805-4 for beta-BHC: Associated CCV outside control limits.

FA41805-4 for Heptachlor epoxide: Associated CCV outside control limits.

FA41805-4 for alpha-Chlordane: Associated CCV outside control limits.

FA41805-4 for 4,4'-DDE: Associated CCV outside control limits.

FA41805-4 for Endrin ketone: Associated CCV outside control limits.

FA41805-4 for Endrin aldehyde: Associated CCV outside control limits.

FA41805-4 for Endrin: Associated CCV outside control limits.

FA41805-4 for delta-BHC: Associated CCV outside control limits.

FA41805-4 for 4,4'-DDD: Associated CCV outside control limits.

FA41805-4 for Endosulfan-II: Associated CCV outside control limits.

FA41805-4 for Endosulfan sulfate: Associated CCV outside control limits.

FA41805-4 for Dieldrin: Associated CCV outside control limits.

FA41805-4 for Methoxychlor: Associated CCV and BS outside control limits.

FA41805-5 for Endrin ketone: Associated CCV outside control limits.

FA41805-5 for Methoxychlor: Associated CCV and BS outside control limits.

FA41805-5 for 4,4'-DDE: Associated CCV outside control limits.

FA41805-5 for 4,4'-DDT: Associated CCV outside control limits.

FA41805-5 for gamma-Chlordane: Associated CCV outside control limits.

FA41805-5 for Heptachlor epoxide: Associated CCV outside control limits.

FA41805-5 for Endosulfan-II: Associated CCV outside control limits.

FA41805-5 for 4,4'-DDD: Associated CCV outside control limits.

FA41805-5 for Endrin: Associated CCV outside control limits.

FA41805-5 for Endosulfan sulfate: Associated CCV outside control limits.

FA41805-5 for Dieldrin: Associated CCV outside control limits.

FA41805-5 for delta-BHC: Associated CCV outside control limits.

FA41805-5 for beta-BHC: Associated CCV outside control limits.

FA41805-5 for alpha-Chlordane: Associated CCV outside control limits.

FA41805-5 for Endrin aldehyde: Associated CCV outside control limits.

FA41805-6 for Endrin aldehyde: Associated CCV outside control limits.

Tuesday, April 04, 2017

Page 4 of 16

Extractables by GC By Method SW846 8081B

Matrix: SO

Batch ID: OP64125

FA41805-6 for Methoxychlor: Associated CCV and BS outside control limits.
FA41805-6 for 4,4'-DDE: Associated CCV outside control limits.
FA41805-6 for 4,4'-DDD: Associated CCV outside control limits.
FA41805-6 for Endrin ketone: Associated CCV outside control limits.
FA41805-6 for gamma-Chlordane: Associated CCV outside control limits.
FA41805-6 for Endrin: Associated CCV outside control limits.
FA41805-6 for Heptachlor epoxide: Associated CCV outside control limits.
FA41805-6 for 4,4'-DDT: Associated CCV outside control limits.
FA41805-6 for Endosulfan-II: Associated CCV outside control limits.
FA41805-6 for Endosulfan sulfate: Associated CCV outside control limits.
FA41805-6 for Dieldrin: Associated CCV outside control limits.
FA41805-6 for delta-BHC: Associated CCV outside control limits.
FA41805-6 for beta-BHC: Associated CCV outside control limits.
FA41805-6 for alpha-Chlordane: Associated CCV outside control limits.
FA41805-7 for Methoxychlor: Associated CCV and BS outside control limits.
FA41805-7 for Endosulfan-I: Associated CCV outside control limits.
FA41805-7 for Endrin aldehyde: Associated CCV outside control limits.
FA41805-7 for Endrin ketone: Associated CCV outside control limits.
FA41805-7 for Heptachlor epoxide: Associated CCV outside control limits.
FA41805-7 for gamma-Chlordane: Associated CCV outside control limits.
FA41805-7 for delta-BHC: Associated CCV outside control limits.
FA41805-7 for beta-BHC: Associated CCV outside control limits.
FA41805-7 for Endosulfan-II: Associated CCV outside control limits.
FA41805-7 for alpha-Chlordane: Associated CCV outside control limits.
FA41805-7 for 4,4'-DDT: Associated CCV outside control limits.
FA41805-7 for 4,4'-DDE: Associated CCV outside control limits.
FA41805-7 for 4,4'-DDD: Associated CCV outside control limits.
FA41805-7 for Dieldrin: Associated CCV outside control limits.
FA41805-7 for Endosulfan sulfate: Associated CCV outside control limits.
FA41805-7 for Endrin: Associated CCV outside control limits.
FA41805-8 for Methoxychlor: Associated CCV and BS outside control limits.
FA41805-8 for Endosulfan-II: Associated CCV outside control limits.
FA41805-8 for alpha-Chlordane: Associated CCV outside control limits.
FA41805-8 for Heptachlor epoxide: Associated CCV outside control limits.
FA41805-8 for gamma-Chlordane: Associated CCV outside control limits.
FA41805-8 for Endrin ketone: Associated CCV outside control limits.
FA41805-8 for Endrin aldehyde: Associated CCV outside control limits.
FA41805-8 for Endrin: Associated CCV outside control limits.
FA41805-8 for Endosulfan-I: Associated CCV outside control limits.
FA41805-8 for Endosulfan sulfate: Associated CCV outside control limits.
FA41805-8 for Dieldrin: Associated CCV outside control limits.
FA41805-8 for beta-BHC: Associated CCV outside control limits.
FA41805-8 for 4,4'-DDT: Associated CCV outside control limits.
FA41805-8 for 4,4'-DDD: Associated CCV outside control limits.
FA41805-8 for 4,4'-DDE: Associated CCV outside control limits.
FA41805-8 for delta-BHC: Associated CCV outside control limits.

Matrix: SO

Batch ID: OP64153

All samples were extracted within the recommended method holding time.
All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA41805-9MS, FA41805-9MSD were used as the QC samples indicated.

Tuesday, April 04, 2017

Page 5 of 16

Extractables by GC By Method SW846 8081B

Matrix: SO

Batch ID: OP64153

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Endosulfan-II are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

FA41805-9 for Endosulfan-II: Associated MS/MSD outside of control limits.

FA41805-11: All hits confirmed by dual column analysis.

Matrix: SO

Batch ID: OP64223

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41805-14MS, FA41805-14MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for, beta-BHC are outside lab and DOD QSM5 control limits. % Recovery was above upper control limits, but samples were ND for these compounds.

Blank Spike Recovery(s) for alpha-BHC, Endosulfan sulfate are outside lab control limits. % Recoveries were above upper control limits, but samples were

Matrix Spike Duplicate Recovery(s) for 4,4'-DDT, alpha-BHC, gamma-Chlordane are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Extractables by GC By Method SW846 8082A

Matrix: SO

Batch ID: OP64110

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41805-2MS, FA41805-2MSD were used as the QC samples indicated.

Matrix: SO

Batch ID: OP64154

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41894-9MS, FA41894-9MSD were used as the QC samples indicated.

Matrix: SO

Batch ID: OP64224

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41805-14MS, FA41805-14MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8151A

Matrix: SO

Batch ID: OP64183

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41805-14MS, FA41805-14MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Dicamba, Dichloroprop are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Dalapon, Dicamba are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Dalapon are outside control limits for sample OP64183-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA41805-2, FA41805-18, FA41805-2, FA41805-10, FA41805-11, FA41805-12, FA41805-13, FA41805-14, FA41805-15, FA41805-19, FA41805-3, FA41805-4, FA41805-5, FA41805-6, FA41805-7, FA41805-8, FA41805-9, OP64183-MS have surrogates outside control limits.

OP64183-MS for 2,4-DCAA: Outside control limits.

FA41805-16 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-2 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

FA41805-3 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

Tuesday, April 04, 2017

Page 6 of 16

Extractables by GC By Method SW846 8151A

Matrix: SO

Batch ID: OP64183

FA41805-4 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-5 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-6 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-7 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-8 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-9 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-10 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-11 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-12 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-13 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-14 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-15 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-17 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

FA41805-18 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

FA41805-19 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

Matrix: SO

Batch ID: OP64312

FA41805-3: Confirmation run for surrogate recoveries.

FA41805-4: Confirmation run for surrogate recoveries.

FA41805-5: Confirmation run for surrogate recoveries.

FA41805-6: Confirmation run for surrogate recoveries.

FA41805-7: Confirmation run for surrogate recoveries.

FA41805-8: Confirmation run for surrogate recoveries.

FA41805-9: Confirmation run for surrogate recoveries.

FA41805-10: Confirmation run for surrogate recoveries.

FA41805-11: Confirmation run for surrogate recoveries.

FA41805-12: Confirmation run for surrogate recoveries.

FA41805-13: Confirmation run for surrogate recoveries.

FA41805-14: Confirmation run for surrogate recoveries.

FA41805-15: Confirmation run for surrogate recoveries.

FA41805-16: Confirmation run for surrogate recoveries.

FA41805-17: Confirmation run for surrogate recoveries.

FA41805-18: Confirmation run for surrogate recoveries.

FA41805-19: Confirmation run for surrogate recoveries.

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31820

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41805-14DUP, FA41805-14MS, FA41805-14MSD, FA41805-14PS, FA41805-14SDL were used as the QC samples for metals.

Tuesday, April 04, 2017

Page 7 of 16

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31820

Matrix Spike Recovery(s) for Aluminum, Antimony, Iron, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Barium, Iron, Manganese, Vanadium are outside control limits. Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

RPD(s) for Serial Dilution for Antimony, Cadmium, Sodium, Thallium, Zinc are outside control limits for sample MP31820-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP31820-MB1 for Manganese: All sample results >10x method blank concentration.

MP31820-SD1 for Zinc: Serial dilution indicates possible matrix interference.

MP31820-PS1 for Barium: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP31820-PS1 for Iron: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP31820-PS1 for Manganese: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP31820-PS1 for Aluminum: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP31820-PS1 for Zinc: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

MP31820-PS1 for Silver: Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.

FA41805-5 for Arsenic: Sample dilution required due to difficult matrix.

FA41805-5 for Selenium: Sample dilution required due to difficult matrix.

FA41805-5 for Beryllium: Sample dilution required due to difficult matrix.

FA41805-4 for Silver: Sample dilution required due to difficult matrix.

FA41805-5 for Antimony: Sample dilution required due to difficult matrix.

FA41805-4 for Chromium: Sample dilution required due to difficult matrix.

FA41805-5 for Potassium: Sample dilution required due to difficult matrix.

FA41805-5 for Cadmium: Sample dilution required due to difficult matrix.

FA41805-4 for Selenium: Sample dilution required due to difficult matrix.

FA41805-5 for Chromium: Sample dilution required due to difficult matrix.

FA41805-4 for Sodium: Sample dilution required due to difficult matrix.

FA41805-4 for Thallium: Sample dilution required due to difficult matrix.

FA41805-4 for Vanadium: Sample dilution required due to difficult matrix.

FA41805-4 for Zinc: Sample dilution required due to difficult matrix.

FA41805-2 for Manganese: Sample dilution required due to difficult matrix.

MP31820-MB1 for Zinc: All sample results >10x method blank concentration.

FA41805-4 for Nickel: Sample dilution required due to difficult matrix.

FA41805-4 for Cobalt: Sample dilution required due to difficult matrix.

FA41805-5 for Magnesium: Sample dilution required due to difficult matrix.

FA41805-4 for Copper: Sample dilution required due to difficult matrix.

FA41805-3 for Potassium: Sample dilution required due to difficult matrix.

FA41805-4 for Potassium: Sample dilution required due to difficult matrix.

FA41805-2 for Potassium: Sample dilution required due to difficult matrix.

FA41805-4 for Iron: Sample dilution required due to difficult matrix.

FA41805-3 for Copper: Sample dilution required due to difficult matrix.

FA41805-3 for Thallium: Sample dilution required due to difficult matrix.

FA41805-3 for Vanadium: Sample dilution required due to difficult matrix.

FA41805-3 for Zinc: Sample dilution required due to difficult matrix.

FA41805-4 for Aluminum: Sample dilution required due to difficult matrix.

FA41805-4 for Antimony: Sample dilution required due to difficult matrix.

FA41805-3 for Silver: Sample dilution required due to difficult matrix.

FA41805-3 for Manganese: Sample dilution required due to difficult matrix.

FA41805-3 for Magnesium: Sample dilution required due to difficult matrix.

Tuesday, April 04, 2017

Page 8 of 16

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31820

FA41805-3 for Lead: Sample dilution required due to difficult matrix.
FA41805-3 for Iron: Sample dilution required due to difficult matrix.
FA41805-3 for Sodium: Sample dilution required due to difficult matrix.
FA41805-4 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-2 for Zinc: Sample dilution required due to difficult matrix.
FA41805-3 for Chromium: Sample dilution required due to difficult matrix.
FA41805-3 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-3 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-4 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-3 for Antimony: Sample dilution required due to difficult matrix.
FA41805-3 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-3 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-2 for Nickel: Sample dilution required due to difficult matrix.
FA41805-3 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-2 for Thallium: Sample dilution required due to difficult matrix.
FA41805-2 for Sodium: Sample dilution required due to difficult matrix.
FA41805-2 for Silver: Sample dilution required due to difficult matrix.
FA41805-2 for Selenium: Sample dilution required due to difficult matrix.
FA41805-2 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-5 for Nickel: Sample dilution required due to difficult matrix.
FA41805-8 for Zinc: Sample dilution required due to difficult matrix.
FA41805-4 for Lead: Sample dilution required due to difficult matrix.
FA41805-8 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-8 for Manganese: Sample dilution required due to difficult matrix.
FA41805-7 for Iron: Sample dilution required due to difficult matrix.
FA41805-8 for Potassium: Sample dilution required due to difficult matrix.
FA41805-8 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-8 for Silver: Sample dilution required due to difficult matrix.
FA41805-8 for Sodium: Sample dilution required due to difficult matrix.
FA41805-8 for Iron: Sample dilution required due to difficult matrix.
FA41805-8 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-8 for Copper: Sample dilution required due to difficult matrix.
FA41805-9 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-8 for Nickel: Sample dilution required due to difficult matrix.
FA41805-7 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-9 for Antimony: Sample dilution required due to difficult matrix.
FA41805-16 for Barium: Sample dilution required due to difficult matrix.
FA41805-7 for Nickel: Sample dilution required due to difficult matrix.
FA41805-12 for Iron: Sample dilution required due to difficult matrix.
FA41805-7 for Selenium: Sample dilution required due to difficult matrix.
FA41805-8 for Thallium: Sample dilution required due to difficult matrix.
FA41805-6 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-6 for Chromium: Sample dilution required due to difficult matrix.
FA41805-5 for Thallium: Sample dilution required due to difficult matrix.
FA41805-5 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-5 for Zinc: Sample dilution required due to difficult matrix.
FA41805-6 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-6 for Antimony: Sample dilution required due to difficult matrix.
FA41805-6 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-6 for Potassium: Sample dilution required due to difficult matrix.
FA41805-8 for Lead: Sample dilution required due to difficult matrix.
FA41805-6 for Nickel: Sample dilution required due to difficult matrix.

Tuesday, April 04, 2017

Page 9 of 16

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31820

FA41805-7 for Thallium: Sample dilution required due to difficult matrix.
FA41805-6 for Copper: Sample dilution required due to difficult matrix.
FA41805-6 for Iron: Sample dilution required due to difficult matrix.
FA41805-6 for Lead: Sample dilution required due to difficult matrix.
FA41805-6 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-7 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-6 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-8 for Selenium: Sample dilution required due to difficult matrix.
FA41805-8 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-6 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-16 for Zinc: Sample dilution required due to difficult matrix.
FA41805-18 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-18 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-18 for Calcium: Sample dilution required due to difficult matrix.
FA41805-18 for Chromium: Sample dilution required due to difficult matrix.
FA41805-17 for Zinc: Sample dilution required due to difficult matrix.
FA41805-17 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-16 for Antimony: Sample dilution required due to difficult matrix.
FA41805-16 for Sodium: Sample dilution required due to difficult matrix.
FA41805-7 for Silver: Sample dilution required due to difficult matrix.
FA41805-16 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-17 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-17 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-17 for Nickel: Sample dilution required due to difficult matrix.
FA41805-17 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-18 for Iron: Sample dilution required due to difficult matrix.
FA41805-17 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-17 for Chromium: Sample dilution required due to difficult matrix.
FA41805-4 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-17 for Copper: Sample dilution required due to difficult matrix.
FA41805-16 for Thallium: Sample dilution required due to difficult matrix.
FA41805-16 for Selenium: Sample dilution required due to difficult matrix.
FA41805-7 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-8 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-7 for Zinc: Sample dilution required due to difficult matrix.
FA41805-8 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-8 for Antimony: Sample dilution required due to difficult matrix.
FA41805-8 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-8 for Barium: Sample dilution required due to difficult matrix.
FA41805-7 for Lead: Sample dilution required due to difficult matrix.
FA41805-18 for Barium: Sample dilution required due to difficult matrix.
FA41805-18 for Antimony: Sample dilution required due to difficult matrix.
FA41805-18 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-17 for Potassium: Sample dilution required due to difficult matrix.
FA41805-17 for Selenium: Sample dilution required due to difficult matrix.
FA41805-17 for Silver: Sample dilution required due to difficult matrix.
FA41805-17 for Sodium: Sample dilution required due to difficult matrix.
FA41805-17 for Thallium: Sample dilution required due to difficult matrix.
FA41805-17 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-17 for Manganese: Sample dilution required due to difficult matrix.
FA41805-18 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-8 for Chromium: Sample dilution required due to difficult matrix.

Tuesday, April 04, 2017

Page 10 of 16

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31820

FA41805-7 for Sodium: Sample dilution required due to difficult matrix.
FA41805-11 for Potassium: Sample dilution required due to difficult matrix.
FA41805-9 for Manganese: Sample dilution required due to difficult matrix.
FA41805-12 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-9 for Potassium: Sample dilution required due to difficult matrix.
FA41805-11 for Nickel: Sample dilution required due to difficult matrix.
FA41805-11 for Sodium: Sample dilution required due to difficult matrix.
FA41805-11 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-11 for Silver: Sample dilution required due to difficult matrix.
FA41805-11 for Zinc: Sample dilution required due to difficult matrix.
FA41805-11 for Barium: Sample dilution required due to difficult matrix.
FA41805-12 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-9 for Copper: Sample dilution required due to difficult matrix.
FA41805-12 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-9 for Nickel: Sample dilution required due to difficult matrix.
FA41805-11 for Calcium: Sample dilution required due to difficult matrix.
FA41805-10 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-10 for Zinc: Sample dilution required due to difficult matrix.
FA41805-11 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-11 for Antimony: Sample dilution required due to difficult matrix.
FA41805-7 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-11 for Selenium: Sample dilution required due to difficult matrix.
FA41805-10 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-11 for Manganese: Sample dilution required due to difficult matrix.
FA41805-12 for Barium: Sample dilution required due to difficult matrix.
FA41805-9 for Silver: Sample dilution required due to difficult matrix.
FA41805-9 for Sodium: Sample dilution required due to difficult matrix.
FA41805-9 for Thallium: Sample dilution required due to difficult matrix.
FA41805-12 for Chromium: Sample dilution required due to difficult matrix.
FA41805-9 for Zinc: Sample dilution required due to difficult matrix.
FA41805-12 for Antimony: Sample dilution required due to difficult matrix.
FA41805-9 for Lead: Sample dilution required due to difficult matrix.
FA41805-10 for Antimony: Sample dilution required due to difficult matrix.
FA41805-9 for Iron: Sample dilution required due to difficult matrix.
FA41805-12 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-12 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-9 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-9 for Selenium: Sample dilution required due to difficult matrix.
FA41805-9 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-9 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-9 for Chromium: Sample dilution required due to difficult matrix.
FA41805-9 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-10 for Chromium: Sample dilution required due to difficult matrix.
FA41805-10 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-6 for Zinc: Sample dilution required due to difficult matrix.
FA41805-10 for Potassium: Sample dilution required due to difficult matrix.
FA41805-10 for Selenium: Sample dilution required due to difficult matrix.
FA41805-7 for Manganese: Sample dilution required due to difficult matrix.
FA41805-10 for Iron: Sample dilution required due to difficult matrix.
FA41805-7 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-6 for Selenium: Sample dilution required due to difficult matrix.
FA41805-6 for Silver: Sample dilution required due to difficult matrix.

Tuesday, April 04, 2017

Page 11 of 16

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31820

FA41805-6 for Sodium: Sample dilution required due to difficult matrix.
FA41805-11 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-6 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-10 for Manganese: Sample dilution required due to difficult matrix.
FA41805-7 for Potassium: Sample dilution required due to difficult matrix.
FA41805-7 for Antimony: Sample dilution required due to difficult matrix.
FA41805-6 for Manganese: Sample dilution required due to difficult matrix.
FA41805-7 for Barium: Sample dilution required due to difficult matrix.
FA41805-7 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-7 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-7 for Chromium: Sample dilution required due to difficult matrix.
FA41805-17 for Iron: Sample dilution required due to difficult matrix.
FA41805-6 for Thallium: Sample dilution required due to difficult matrix.
FA41805-10 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-11 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-10 for Silver: Sample dilution required due to difficult matrix.
FA41805-11 for Chromium: Sample dilution required due to difficult matrix.
FA41805-11 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-11 for Copper: Sample dilution required due to difficult matrix.
FA41805-11 for Iron: Sample dilution required due to difficult matrix.
FA41805-11 for Lead: Sample dilution required due to difficult matrix.
FA41805-11 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-11 for Thallium: Sample dilution required due to difficult matrix.
FA41805-10 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-10 for Nickel: Sample dilution required due to difficult matrix.
FA41805-10 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-10 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-9 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-12 for Copper: Sample dilution required due to difficult matrix.
FA41805-10 for Copper: Sample dilution required due to difficult matrix.
FA41805-10 for Thallium: Sample dilution required due to difficult matrix.
FA41805-10 for Lead: Sample dilution required due to difficult matrix.
FA41805-10 for Sodium: Sample dilution required due to difficult matrix.
FA41805-7 for Copper: Sample dilution required due to difficult matrix.
FA41805-11 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-14 for Manganese: Sample dilution required due to difficult matrix.
FA41805-15 for Nickel: Sample dilution required due to difficult matrix.
FA41805-15 for Potassium: Sample dilution required due to difficult matrix.
FA41805-15 for Selenium: Sample dilution required due to difficult matrix.
FA41805-15 for Silver: Sample dilution required due to difficult matrix.
FA41805-12 for Lead: Sample dilution required due to difficult matrix.
FA41805-15 for Iron: Sample dilution required due to difficult matrix.
FA41805-14 for Chromium: Sample dilution required due to difficult matrix.
FA41805-15 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-14 for Nickel: Sample dilution required due to difficult matrix.
FA41805-15 for Lead: Sample dilution required due to difficult matrix.
FA41805-14 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-14 for Lead: Sample dilution required due to difficult matrix.
FA41805-14 for Iron: Sample dilution required due to difficult matrix.
FA41805-14 for Antimony: Sample dilution required due to difficult matrix.
FA41805-14 for Cobalt: Sample dilution required due to difficult matrix.

Tuesday, April 04, 2017

Page 12 of 16

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31820

FA41805-14 for Sodium: Sample dilution required due to difficult matrix.
FA41805-14 for Calcium: Sample dilution required due to difficult matrix.
FA41805-14 for Potassium: Sample dilution required due to difficult matrix.
FA41805-15 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-16 for Calcium: Sample dilution required due to difficult matrix.
FA41805-15 for Sodium: Sample dilution required due to difficult matrix.
FA41805-16 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-16 for Copper: Sample dilution required due to difficult matrix.
FA41805-16 for Iron: Sample dilution required due to difficult matrix.
FA41805-17 for Lead: Sample dilution required due to difficult matrix.
FA41805-16 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-15 for Manganese: Sample dilution required due to difficult matrix.
FA41805-16 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-15 for Thallium: Sample dilution required due to difficult matrix.
FA41805-15 for Barium: Sample dilution required due to difficult matrix.
FA41805-15 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-15 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-15 for Chromium: Sample dilution required due to difficult matrix.
FA41805-15 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-15 for Copper: Sample dilution required due to difficult matrix.
FA41805-15 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-14 for Barium: Sample dilution required due to difficult matrix.
FA41805-17 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-5 for Silver: Sample dilution required due to difficult matrix.
FA41805-14 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-14 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-2 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-4 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-5 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-5 for Copper: Sample dilution required due to difficult matrix.
FA41805-5 for Iron: Sample dilution required due to difficult matrix.
FA41805-5 for Lead: Sample dilution required due to difficult matrix.
FA41805-5 for Manganese: Sample dilution required due to difficult matrix.
FA41805-4 for Manganese: Sample dilution required due to difficult matrix.
FA41805-5 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-2 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-16 for Lead: Sample dilution required due to difficult matrix.
FA41805-2 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-14 for Copper: Sample dilution required due to difficult matrix.
FA41805-2 for Antimony: Sample dilution required due to difficult matrix.
FA41805-2 for Lead: Sample dilution required due to difficult matrix.
FA41805-2 for Iron: Sample dilution required due to difficult matrix.
FA41805-2 for Copper: Sample dilution required due to difficult matrix.
FA41805-3 for Selenium: Sample dilution required due to difficult matrix.
FA41805-2 for Chromium: Sample dilution required due to difficult matrix.
FA41805-14 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-14 for Selenium: Sample dilution required due to difficult matrix.
FA41805-2 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-14 for Silver: Sample dilution required due to difficult matrix.
FA41805-2 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-14 for Zinc: Sample dilution required due to difficult matrix.
FA41805-14 for Vanadium: Sample dilution required due to difficult matrix.

Tuesday, April 04, 2017

Page 13 of 16

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31820

FA41805-14 for Thallium: Sample dilution required due to difficult matrix.
FA41805-14 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-2 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-16 for Nickel: Sample dilution required due to difficult matrix.
FA41805-16 for Potassium: Sample dilution required due to difficult matrix.
FA41805-18 for Lead: Sample dilution required due to difficult matrix.
FA41805-18 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-18 for Manganese: Sample dilution required due to difficult matrix.
FA41805-18 for Nickel: Sample dilution required due to difficult matrix.
FA41805-18 for Potassium: Sample dilution required due to difficult matrix.
FA41805-19 for Cadmium: Sample dilution required due to difficult matrix.
FA41805-15 for Antimony: Sample dilution required due to difficult matrix.
FA41805-18 for Copper: Sample dilution required due to difficult matrix.
FA41805-19 for Zinc: Sample dilution required due to difficult matrix.
FA41805-18 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-16 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-19 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-19 for Antimony: Sample dilution required due to difficult matrix.
FA41805-19 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-18 for Selenium: Sample dilution required due to difficult matrix.
FA41805-13 for Selenium: Sample dilution required due to difficult matrix.
FA41805-18 for Silver: Sample dilution required due to difficult matrix.
FA41805-19 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-17 for Antimony: Sample dilution required due to difficult matrix.
FA41805-19 for Potassium: Sample dilution required due to difficult matrix.
FA41805-18 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-19 for Chromium: Sample dilution required due to difficult matrix.
FA41805-19 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-19 for Copper: Sample dilution required due to difficult matrix.
FA41805-19 for Iron: Sample dilution required due to difficult matrix.
FA41805-18 for Sodium: Sample dilution required due to difficult matrix.
FA41805-19 for Magnesium: Sample dilution required due to difficult matrix.
FA41805-19 for Manganese: Sample dilution required due to difficult matrix.
FA41805-19 for Nickel: Sample dilution required due to difficult matrix.
FA41805-19 for Barium: Sample dilution required due to difficult matrix.
FA41805-19 for Selenium: Sample dilution required due to difficult matrix.
FA41805-19 for Silver: Sample dilution required due to difficult matrix.
FA41805-19 for Sodium: Sample dilution required due to difficult matrix.
FA41805-19 for Thallium: Sample dilution required due to difficult matrix.
FA41805-19 for Vanadium: Sample dilution required due to difficult matrix.
FA41805-18 for Zinc: Sample dilution required due to difficult matrix.
FA41805-19 for Lead: Sample dilution required due to difficult matrix.
FA41805-16 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-13 for Aluminum: Sample dilution required due to difficult matrix.
FA41805-16 for Chromium: Sample dilution required due to difficult matrix.
FA41805-12 for Sodium: Sample dilution required due to difficult matrix.
FA41805-15 for Zinc: Sample dilution required due to difficult matrix.
FA41805-13 for Beryllium: Sample dilution required due to difficult matrix.
FA41805-13 for Cobalt: Sample dilution required due to difficult matrix.
FA41805-16 for Arsenic: Sample dilution required due to difficult matrix.
FA41805-3 for Nickel: Sample dilution required due to difficult matrix.

Tuesday, April 04, 2017

Page 14 of 16

Metals By Method SW846 6020A

Matrix: SO

Batch ID: MP31820

FA41805-5 for Sodium: Sample dilution required due to difficult matrix.
 FA41805-12 for Nickel: Sample dilution required due to difficult matrix.
 FA41805-13 for Barium: Sample dilution required due to difficult matrix.
 FA41805-13 for Silver: Sample dilution required due to difficult matrix.
 FA41805-13 for Arsenic: Sample dilution required due to difficult matrix.
 FA41805-13 for Antimony: Sample dilution required due to difficult matrix.
 FA41805-13 for Chromium: Sample dilution required due to difficult matrix.
 FA41805-12 for Thallium: Sample dilution required due to difficult matrix.
 FA41805-15 for Arsenic: Sample dilution required due to difficult matrix.
 FA41805-12 for Zinc: Sample dilution required due to difficult matrix.
 FA41805-18 for Thallium: Sample dilution required due to difficult matrix.
 FA41805-13 for Sodium: Sample dilution required due to difficult matrix.
 FA41805-13 for Copper: Sample dilution required due to difficult matrix.
 FA41805-13 for Iron: Sample dilution required due to difficult matrix.
 FA41805-13 for Lead: Sample dilution required due to difficult matrix.
 FA41805-13 for Magnesium: Sample dilution required due to difficult matrix.
 FA41805-13 for Manganese: Sample dilution required due to difficult matrix.
 FA41805-13 for Calcium: Sample dilution required due to difficult matrix.
 FA41805-13 for Potassium: Sample dilution required due to difficult matrix.
 FA41805-12 for Potassium: Sample dilution required due to difficult matrix.
 FA41805-13 for Silver: Sample dilution required due to difficult matrix.
 FA41805-12 for Selenium: Sample dilution required due to difficult matrix.
 FA41805-13 for Thallium: Sample dilution required due to difficult matrix.
 FA41805-13 for Vanadium: Sample dilution required due to difficult matrix.
 FA41805-13 for Zinc: Sample dilution required due to difficult matrix.
 FA41805-16 for Silver: Sample dilution required due to difficult matrix.
 FA41805-13 for Nickel: Sample dilution required due to difficult matrix.
 FA41805-12 for Vanadium: Sample dilution required due to difficult matrix.
 FA41805-12 for Magnesium: Sample dilution required due to difficult matrix.
 FA41805-12 for Manganese: Sample dilution required due to difficult matrix.
 FA41805-13 for Cadmium: Sample dilution required due to difficult matrix.

Metals By Method SW846 7471B

Matrix: SO

Batch ID: MP31783

All samples were digested within the recommended method holding time.
 All samples were analyzed within the recommended method holding time.
 All method blanks for this batch meet method specific criteria.
 Sample(s) FA41687-5DUP, FA41687-5MS, FA41687-5MSD, FA41687-5SDL were used as the QC samples for metals.
 RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP31783-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO

Batch ID: MP31789

All samples were digested within the recommended method holding time.
 All samples were analyzed within the recommended method holding time.
 All method blanks for this batch meet method specific criteria.
 Sample(s) FA41805-14DUP, FA41805-14MS, FA41805-14MSD, FA41805-14SDL were used as the QC samples for
 RPD(s) for Serial Dilution for Mercury are outside control limits for sample MP31789-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Tuesday, April 04, 2017

Page 15 of 16

Wet Chemistry By Method SM19 2540G

Matrix: SO

Batch ID: GN74299

Sample(s) FA41796-1DUP were used as the QC samples for Solids, Percent.

Matrix: SO

Batch ID: GN74326

Sample(s) FA41808-1DUP were used as the QC samples for Solids, Percent.

Matrix: SO

Batch ID: GN74327

Sample(s) FA41805-3DUP, FA41805-4DUP were used as the QC samples for Solids, Percent.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Kim Benham, Client Services (signature on file)

Date April 4, 2017

Tuesday, April 04, 2017

Page 16 of 16

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-TB-03
 Lab Sample ID: FA41805-1
 Matrix: AQ - Trip Blank Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
 Date Received: 03/07/17
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0205797.D	1	03/08/17	TD	n/a	n/a	VA2110
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U	25	20	10	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	0.31	ug/l	
108-86-1	Bromobenzene	0.50 U	1.0	0.50	0.37	ug/l	
74-97-5	Bromochloromethane	0.50 U	1.0	0.50	0.45	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	0.24	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	0.41	ug/l	
78-93-3	2-Butanone (MEK)	3.5 U	5.0	3.5	2.0	ug/l	
104-51-8	n-Butylbenzene	0.50 U	1.0	0.50	0.23	ug/l	
135-98-8	sec-Butylbenzene	0.50 U	1.0	0.50	0.24	ug/l	
98-06-6	tert-Butylbenzene	0.50 U	1.0	0.50	0.31	ug/l	
75-15-0	Carbon Disulfide	1.0 U	2.0	1.0	0.53	ug/l	
56-23-5	Carbon Tetrachloride	0.50 U	1.0	0.50	0.36	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	0.20	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	0.67	ug/l	
67-66-3	Chloroform	0.50 U	1.0	0.50	0.30	ug/l	
95-49-8	o-Chlorotoluene	0.50 U	1.0	0.50	0.22	ug/l	
106-43-4	p-Chlorotoluene	0.50 U	1.0	0.50	0.31	ug/l	
124-48-1	Dibromochloromethane	0.50 U	1.0	0.50	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	5.0	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	1.0 U	2.0	1.0	0.28	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.50 U	1.0	0.50	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	0.50 U	1.0	0.50	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	0.50 U	1.0	0.50	0.26	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	0.34	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	0.31	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	0.32	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.28	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	0.43	ug/l	
142-28-9	1,3-Dichloropropane	0.50 U	1.0	0.50	0.31	ug/l	
594-20-7	2,2-Dichloropropane	0.50 U	1.0	0.50	0.24	ug/l	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FEIDS-TB-03	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-1	Date Received:	03/07/17
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	0.50 U	1.0	0.50	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.50 U	1.0	0.50	0.29	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.50 U	1.0	0.50	0.21	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	0.36	ug/l	
87-68-3	Hexachlorobutadiene	1.0 U	2.0	1.0	0.30	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	0.22	ug/l	
99-87-6	p-Isopropyltoluene	0.50 U	1.0	0.50	0.21	ug/l	
74-83-9	Methyl Bromide	1.0 U	2.0	1.0	0.59	ug/l	
74-87-3	Methyl Chloride	1.0 U	2.0	1.0	0.50	ug/l	
74-95-3	Methylene Bromide	0.50 U	2.0	0.50	0.37	ug/l	
75-09-2	Methylene Chloride	4.0 U	5.0	4.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0 U	5.0	2.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	0.23	ug/l	
91-20-3	Naphthalene	2.0 U	5.0	2.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.50 U	1.0	0.50	0.29	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	0.22	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U	1.0	0.50	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	1.0	0.50	0.30	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	0.22	ug/l	
108-88-3	Toluene	0.57	1.0	0.50	0.30	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	0.61	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	0.47	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	0.35	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	2.0	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	1.0 U	2.0	1.0	0.63	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.50 U	1.0	0.50	0.32	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.50 U	1.0	0.50	0.27	ug/l	
108-05-4	Vinyl Acetate	5.0 U	10	5.0	2.0	ug/l	
75-01-4	Vinyl Chloride	0.50 U	1.0	0.50	0.41	ug/l	
	m,p-Xylene	1.0 U	2.0	1.0	0.47	ug/l	
95-47-6	o-Xylene	0.50 U	1.0	0.50	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	103%		85-112%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-TB-03	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-1	Date Received:	03/07/17
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		83-118%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB3-SO-13

Lab Sample ID: FA41805-2

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 94.7

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33935.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

Run #	Initial Weight	Final Volume
Run #1	6.76 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	18 U J	37	18	7.4	ug/kg	
71-43-2	Benzene	1.5 U	3.7	1.5	0.90	ug/kg	
108-86-1	Bromobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
74-97-5	Bromochloromethane	1.5 U	3.7	1.5	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.5 U	3.7	1.5	0.74	ug/kg	
75-25-2	Bromoform	1.5 U	3.7	1.5	0.74	ug/kg	
78-93-3	2-Butanone (MEK)	11 U	18	11	5.4	ug/kg	
104-51-8	n-Butylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
135-98-8	sec-Butylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
98-06-6	tert-Butylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
75-15-0	Carbon Disulfide	1.5 U	3.7	1.5	0.74	ug/kg	
56-23-5	Carbon Tetrachloride	1.5 U	3.7	1.5	0.75	ug/kg	
108-90-7	Chlorobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
75-00-3	Chloroethane	2.6 U	3.7	2.6	1.5	ug/kg	
67-66-3	Chloroform	1.5 U	3.7	1.5	0.98	ug/kg	
95-49-8	o-Chlorotoluene	1.5 U	3.7	1.5	0.74	ug/kg	
106-43-4	p-Chlorotoluene	1.5 U	3.7	1.5	0.74	ug/kg	
124-48-1	Dibromochloromethane	1.5 U	3.7	1.5	0.74	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.6 U	3.7	2.6	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.5 U	3.7	1.5	0.74	ug/kg	
75-71-8	Dichlorodifluoromethane	2.6 U	3.7	2.6	1.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.5 U	3.7	1.5	0.85	ug/kg	
75-34-3	1,1-Dichloroethane	1.5 U	3.7	1.5	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
75-35-4	1,1-Dichloroethylene	1.5 U	3.7	1.5	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.5 U	3.7	1.5	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.5 U	3.7	1.5	0.74	ug/kg	
78-87-5	1,2-Dichloropropane	1.5 U	3.7	1.5	0.74	ug/kg	
142-28-9	1,3-Dichloropropane	1.5 U	3.7	1.5	0.74	ug/kg	
594-20-7	2,2-Dichloropropane	1.5 U	3.7	1.5	0.74	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SB3-SO-13

Lab Sample ID: FA41805-2

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 94.7

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.5 U ^J	3.7	1.5	0.75	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.5 U	3.7	1.5	0.74	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.5 U	3.7	1.5	0.74	ug/kg	
100-41-4	Ethylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
87-68-3	Hexachlorobutadiene	1.5 U	3.7	1.5	0.95	ug/kg	
591-78-6	2-Hexanone	11 U	18	11	5.5	ug/kg	
98-82-8	Isopropylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
99-87-6	p-Isopropyltoluene	1.5 U	3.7	1.5	0.74	ug/kg	
74-83-9	Methyl Bromide	2.6 U	3.7	2.6	1.5	ug/kg	
74-87-3	Methyl Chloride	2.6 U	3.7	2.6	1.5	ug/kg	
74-95-3	Methylene Bromide	1.5 U	3.7	1.5	0.74	ug/kg	
75-09-2	Methylene Chloride	3.7 U	7.4	3.7	3.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	11 U	18	11	5.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.5 U	3.7	1.5	0.74	ug/kg	
91-20-3	Naphthalene	2.6 U	3.7	2.6	1.5	ug/kg	
103-65-1	n-Propylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
100-42-5	Styrene	1.5 U	3.7	1.5	0.74	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.5 U	3.7	1.5	0.76	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
127-18-4	Tetrachloroethylene	1.5 U	3.7	1.5	0.95	ug/kg	
108-88-3	Toluene	1.5 U	3.7	1.5	0.74	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.6 U	3.7	2.6	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.6 U	3.7	2.6	0.74	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
79-01-6	Trichloroethylene	1.5 U	3.7	1.5	0.74	ug/kg	
75-69-4	Trichlorofluoromethane	2.6 U	3.7	2.6	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.6 U	3.7	2.6	0.92	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
108-05-4	Vinyl Acetate	15 U	18	15	12	ug/kg	
75-01-4	Vinyl Chloride	1.5 U	3.7	1.5	0.74	ug/kg	
	m,p-Xylene	3.0 U	7.4	3.0	0.81	ug/kg	
95-47-6	o-Xylene	1.5 U ^J	3.7	1.5	0.74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		75-124%
17060-07-0	1,2-Dichloroethane-D4	106%		72-135%
2037-26-5	Toluene-D8	96%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB3-SO-13
Lab Sample ID: FA41805-2
Matrix: SO - Soil
Method: SW846 8260B
Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
Date Received: 03/07/17
Percent Solids: 94.7

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB3-SO-13

Lab Sample ID: FA41805-2

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 94.7

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052852.D	1	03/14/17	NG	03/10/17	OP64127	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	350 U	870	350	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	35 U	170	35	20	ug/kg	
95-57-8	2-Chlorophenol	35 U	170	35	21	ug/kg	
120-83-2	2,4-Dichlorophenol	35 U	170	35	20	ug/kg	
105-67-9	2,4-Dimethylphenol	69 U	170	69	46	ug/kg	
51-28-5	2,4-Dinitrophenol	520 U	870	520	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	350	140	69	ug/kg	
95-48-7	2-Methylphenol	35 U	170	35	21	ug/kg	
	3&4-Methylphenol	69 U	170	69	28	ug/kg	
88-75-5	2-Nitrophenol	35 U	170	35	19	ug/kg	
100-02-7	4-Nitrophenol	350 U	870	350	170	ug/kg	
87-86-5	Pentachlorophenol	350 U	870	350	170	ug/kg	
108-95-2	Phenol	35 U	170	35	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	35 U	170	35	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	35 U	170	35	20	ug/kg	
83-32-9	Acenaphthene	35 U	170	35	18	ug/kg	
208-96-8	Acenaphthylene	35 U	170	35	17	ug/kg	
62-53-3	Aniline	69 U	170	69	37	ug/kg	
120-12-7	Anthracene	35 U	170	35	19	ug/kg	
92-87-5	Benzidine	870 U	1700	870	350	ug/kg	
56-55-3	Benzo(a)anthracene	35 U	170	35	17	ug/kg	
50-32-8	Benzo(a)pyrene	35 U	170	35	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	35 U	170	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	35 U	170	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	35 U	170	35	23	ug/kg	
100-51-6	Benzyl Alcohol	35 U	170	35	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	35 U	170	35	18	ug/kg	
85-68-7	Butyl benzyl phthalate	69 U	170	69	35	ug/kg	
86-74-8	Carbazole	35 U	170	35	24	ug/kg	
106-47-8	4-Chloroaniline	69 U	170	69	44	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	35 U	170	35	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	35 U	170	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB3-SO-13		
Lab Sample ID:	FA41805-2	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8270D SW846 3550C	Percent Solids:	94.7
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	35 U	170	35	22	ug/kg	
91-58-7	2-Chloronaphthalene	35 U	170	35	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	35 U	170	35	17	ug/kg	
218-01-9	Chrysene	35 U	170	35	18	ug/kg	
53-70-3	Dihenzo(a,h)anthracene	35 U	170	35	22	ug/kg	
132-64-9	Dibenzofuran	35 U	170	35	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	69 U	170	69	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	69 U	170	69	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	69 U	170	69	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	69 U	170	69	41	ug/kg	
84-66-2	Diethyl Phthalate	120 U	350	120	35	ug/kg	
131-11-3	Dimethyl Phthalate	69 U	170	69	35	ug/kg	
117-84-0	Di-n-octyl Phthalate	69 U	170	69	35	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	350	120	69	ug/kg	
121-14-2	2,4-Dinitrotoluene	35 U	170	35	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	35 U	170	35	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	35 U	170	35	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	350	120	35	ug/kg	
206-44-0	Fluoranthene	35 U	170	35	17	ug/kg	
86-73-7	Fluorene	35 U	170	35	19	ug/kg	
118-74-1	Hexachlorobenzene	35 U	170	35	18	ug/kg	
87-68-3	Hexachlorobutadiene	69 U	170	69	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	69 U	170	69	35	ug/kg	
67-72-1	Hexachloroethane	69 U	170	69	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	35 U	170	35	21	ug/kg	
78-59-1	Isophorone	35 U	170	35	17	ug/kg	
90-12-0	1-Methylnaphthalene	35 U	170	35	17	ug/kg	
91-57-6	2-Methylnaphthalene	35 U	170	35	17	ug/kg	
91-20-3	Naphthalene	35 U	170	35	17	ug/kg	
88-74-4	2-Nitroaniline	69 U	170	69	40	ug/kg	
99-09-2	3-Nitroaniline	69 U	170	69	20	ug/kg	
100-01-6	4-Nitroaniline	69 U	170	69	50	ug/kg	
98-95-3	Nitrobenzene	35 U	170	35	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	69 U	170	69	29	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	35 U	170	35	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	69 U	170	69	19	ug/kg	
85-01-8	Phenanthrene	35 U	170	35	17	ug/kg	
129-00-0	Pyrene	35 U	170	35	20	ug/kg	
110-86-1	Pyridine	120 U	350	120	69	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	35 U	170	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB3-SO-13

Lab Sample ID: FA41805-2

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 94.7

Project: Far East Dump Site, Fort Bliss, TX

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		40-102%
4165-62-2	Phenol-d5	121% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	85%		42-108%
4165-60-0	Nitrobenzene-d5	83%		40-105%
321-60-8	2-Fluorobiphenyl	84%		43-107%
1718-51-0	Terphenyl-d14	88%		45-119%

(a) Outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB3-SO-13

Lab Sample ID: FA41805-2

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 94.7

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053864.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053977.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2	15.1 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	34	17	8.8	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.4	1.7	0.96	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.4	1.7	0.88	ug/kg	
1918-00-9	Dicamba	1.7 U	3.4	1.7	0.80	ug/kg	
88-85-7	Dinoseb	34 U	86	34	17	ug/kg	
75-99-0	Dalapon	69 U	170	69	34	ug/kg	
120-36-5	Dichloroprop	17 U	34	17	8.5	ug/kg	
94-82-6	2,4-DB	17 U	34	17	8.9	ug/kg	
93-65-2	MCPP	1700 U	3400	1700	880	ug/kg	
94-74-6	MCPA	2600 U	3400	2600	1700	ug/kg	
87-86-5	Pentachlorophenol	1.7 U V	3.4	1.7	0.72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	6% ^b	24%	31-132%

(a) Confirmation run for surrogates recoveries.

(b) Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB3-SO-13

Lab Sample ID: FA41805-2

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 94.7

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82039.D	1	03/12/17	MV	03/10/17	OP64125	GKK2631
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.86 U	1.7	0.86	0.54	ug/kg	
319-84-6	alpha-BHC	0.86 U	1.7	0.86	0.54	ug/kg	
319-85-7	beta-BHC	0.86 U	1.7	0.86	0.50	ug/kg	
319-86-8	delta-BHC	0.86 U	1.7	0.86	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.86 U	1.7	0.86	0.51	ug/kg	
5103-71-9	alpha-Chlordane	0.86 U	1.7	0.86	0.53	ug/kg	
5103-74-2	gamma-Chlordane	0.86 U	1.7	0.86	0.49	ug/kg	
60-57-1	Dieldrin	0.86 U	1.7	0.86	0.48	ug/kg	
72-54-8	4,4'-DDD	0.86 U	3.4	0.86	0.47	ug/kg	
72-55-9	4,4'-DDE	0.86 U	3.4	0.86	0.62	ug/kg	
50-29-3	4,4'-DDT	0.86 U	3.4	0.86	0.52	ug/kg	
72-20-8	Endrin	1.7 U	3.4	1.7	0.87	ug/kg	
1031-07-8	Endosulfan sulfate	0.86 U	3.4	0.86	0.45	ug/kg	
7421-93-4	Endrin aldehyde	0.86 U	3.4	0.86	0.40	ug/kg	
53494-70-5	Endrin ketone	0.86 U	3.4	0.86	0.54	ug/kg	
959-98-8	Endosulfan-I	0.86 U	1.7	0.86	0.39	ug/kg	
33213-65-9	Endosulfan-II	0.86 U	1.7	0.86	0.40	ug/kg	
76-44-8	Heptachlor	0.86 U	1.7	0.86	0.51	ug/kg	
1024-57-3	Heptachlor epoxide	0.86 U	1.7	0.86	0.50	ug/kg	
72-43-5	Methoxychlor ^a	1.7 U J	3.4	1.7	0.69	ug/kg	
8001-35-2	Toxaphene	43 U	86	43	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		50-122%
2051-24-3	Decachlorobiphenyl	113%		50-133%

(a) Associated CCV and BS outside control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB3-SO-13

Lab Sample ID: FA41805-2

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3546

Percent Solids: 94.7

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39649.D	1	03/10/17	NJ	03/09/17	OP64110	GMM763
Run #2							

	Initial Weight	Final Volume
Run #1	14.7 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	13 U	18	13	7.2	ug/kg	
11104-28-2	Aroclor 1221	13 U	18	13	9.0	ug/kg	
11141-16-5	Aroclor 1232	13 U	18	13	9.0	ug/kg	
53469-21-9	Aroclor 1242	13 U	18	13	7.2	ug/kg	
12672-29-6	Aroclor 1248	13 U	18	13	7.2	ug/kg	
11097-69-1	Aroclor 1254	13 U	18	13	7.2	ug/kg	
11096-82-5	Aroclor 1260	13 U	18	13	7.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		44-126%
2051-24-3	Decachlorobiphenyl	85%		41-145%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

4.2
4

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB3-SO-13

Lab Sample ID: FA41805-2

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 94.7

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4770	52	13	2.3	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Antimony ^a	0.12 J	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Arsenic ^a	2.4	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Barium	155	10	5.2	1.0	mg/kg	200	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Beryllium ^a	0.25 J	0.52	0.26	0.056	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cadmium ^a	0.081 J	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Calcium	99000	1000	520	75	mg/kg	200	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Chromium ^a	5.5	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cobalt ^a	2.0	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Copper ^a	2.0	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Iron ^a	4600	52	13	4.1	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Lead ^a	3.6	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Magnesium ^a	5150	52	26	2.7	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Manganese ^a	46.0	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Mercury	0.017 U	0.043	0.017	0.0043	mg/kg	1	03/14/17	03/14/17	JL	SW846 7471B ¹ SW846 7471B ⁴
Nickel ^a	5.2	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Potassium ^a	851	52	26	3.4	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Selenium ^a	1.4	0.52	0.26	0.093	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Silver ^a	0.26 U	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Sodium ^a	343	52	26	2.5	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Thallium ^a	0.26 U	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Vanadium ^a	11.6	0.52	0.26	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Zinc ^a	12.9 J	0.52	0.26	0.15	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵

(1) Instrument QC Batch: MA13891

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31783

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB4-SO-14

Lab Sample ID: FA41805-3

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 94.3

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33936.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

	Initial Weight	Final Volume
Run #1	6.23 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U ^J	40	20	8.0	ug/kg	
71-43-2	Benzene	1.6 U	4.0	1.6	0.98	ug/kg	
108-86-1	Bromobenzene	1.6 U	4.0	1.6	0.80	ug/kg	
74-97-5	Bromochloromethane	1.6 U	4.0	1.6	1.2	ug/kg	
75-27-4	Bromodichloromethane	1.6 U	4.0	1.6	0.80	ug/kg	
75-25-2	Bromoform	1.6 U	4.0	1.6	0.80	ug/kg	
78-93-3	2-Butanone (MEK)	12 U	20	12	5.8	ug/kg	
104-51-8	n-Butylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
135-98-8	sec-Butylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
98-06-6	tert-Butylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
75-15-0	Carbon Disulfide	1.6 U	4.0	1.6	0.80	ug/kg	
56-23-5	Carbon Tetrachloride	1.6 U	4.0	1.6	0.82	ug/kg	
108-90-7	Chlorobenzene	1.6 U	4.0	1.6	0.80	ug/kg	
75-00-3	Chloroethane	2.8 U	4.0	2.8	1.6	ug/kg	
67-66-3	Chloroform	1.6 U	4.0	1.6	1.1	ug/kg	
95-49-8	o-Chlorotoluene	1.6 U	4.0	1.6	0.80	ug/kg	
106-43-4	p-Chlorotoluene	1.6 U	4.0	1.6	0.80	ug/kg	
124-48-1	Dibromochloromethane	1.6 U	4.0	1.6	0.80	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.8 U	4.0	2.8	1.5	ug/kg	
106-93-4	1,2-Dibromoethane	1.6 U	4.0	1.6	0.80	ug/kg	
75-71-8	Dichlorodifluoromethane	2.8 U	4.0	2.8	1.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.6 U	4.0	1.6	0.80	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.6 U	4.0	1.6	0.80	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.6 U	4.0	1.6	0.92	ug/kg	
75-34-3	1,1-Dichloroethane	1.6 U	4.0	1.6	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	1.6 U	4.0	1.6	0.80	ug/kg	
75-35-4	1,1-Dichloroethylene	1.6 U	4.0	1.6	0.80	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.6 U	4.0	1.6	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.6 U	4.0	1.6	0.80	ug/kg	
78-87-5	1,2-Dichloropropane	1.6 U	4.0	1.6	0.80	ug/kg	
142-28-9	1,3-Dichloropropane	1.6 U	4.0	1.6	0.80	ug/kg	
594-20-7	2,2-Dichloropropane	1.6 U ^V	4.0	1.6	0.80	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FEIDS-SB4-SO-14
 Lab Sample ID: FA41805-3
 Matrix: SO - Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
 Date Received: 03/07/17
 Percent Solids: 94.3

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.6 U J	4.0	1.6	0.82	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.6 U	4.0	1.6	0.80	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.6 U	4.0	1.6	0.80	ug/kg	
100-41-4	Ethylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
87-68-3	Hexachlorobutadiene	1.6 U	4.0	1.6	1.0	ug/kg	
591-78-6	2-Hexanone	12 U	20	12	6.0	ug/kg	
98-82-8	Isopropylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
99-87-6	p-Isopropyltoluene	1.6 U	4.0	1.6	0.80	ug/kg	
74-83-9	Methyl Bromide	2.8 U	4.0	2.8	1.6	ug/kg	
74-87-3	Methyl Chloride	2.8 U	4.0	2.8	1.6	ug/kg	
74-95-3	Methylene Bromide	1.6 U	4.0	1.6	0.80	ug/kg	
75-09-2	Methylene Chloride	4.0 U	8.0	4.0	3.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	12 U	20	12	6.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.6 U	4.0	1.6	0.80	ug/kg	
91-20-3	Naphthalene	2.8 U	4.0	2.8	1.6	ug/kg	
103-65-1	n-Propylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
100-42-5	Styrene	1.6 U	4.0	1.6	0.80	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.6 U	4.0	1.6	0.83	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.6 U	4.0	1.6	0.80	ug/kg	
127-18-4	Tetrachloroethylene	1.6 U	4.0	1.6	1.0	ug/kg	
108-88-3	Toluene	1.6 U	4.0	1.6	0.80	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.8 U	4.0	2.8	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.8 U	4.0	2.8	0.80	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.6 U	4.0	1.6	0.80	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.6 U	4.0	1.6	0.80	ug/kg	
79-01-6	Trichloroethylene	1.6 U	4.0	1.6	0.80	ug/kg	
75-69-4	Trichlorofluoromethane	2.8 U	4.0	2.8	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.8 U	4.0	2.8	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
108-05-4	Vinyl Acetate	16 U	20	16	13	ug/kg	
75-01-4	Vinyl Chloride	1.6 U	4.0	1.6	0.80	ug/kg	
	m,p-Xylene	3.2 U	8.0	3.2	0.88	ug/kg	
95-47-6	o-Xylene	1.6 U	4.0	1.6	0.80	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		75-124%
17060-07-0	1,2-Dichloroethane-D4	105%		72-135%
2037-26-5	Toluene-D8	101%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB4-SO-14

Lab Sample ID: FA41805-3

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 94.3

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB4-SO-14

Lab Sample ID: FA41805-3

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 94.3

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052853.D	I	03/14/17	NG	03/10/17	OP64127	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	350 U	870	350	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	35 U	170	35	20	ug/kg	
95-57-8	2-Chlorophenol	35 U	170	35	21	ug/kg	
120-83-2	2,4-Dichlorophenol	35 U	170	35	20	ug/kg	
105-67-9	2,4-Dimethylphenol	70 U	170	70	46	ug/kg	
51-28-5	2,4-Dinitrophenol	520 U	870	520	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	350	140	70	ug/kg	
95-48-7	2-Methylphenol	35 U	170	35	21	ug/kg	
	3&4-Methylphenol	70 U	170	70	29	ug/kg	
88-75-5	2-Nitrophenol	35 U	170	35	19	ug/kg	
100-02-7	4-Nitrophenol	350 U	870	350	170	ug/kg	
87-86-5	Pentachlorophenol	350 U	870	350	170	ug/kg	
108-95-2	Phenol	35 U	170	35	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	35 U	170	35	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	35 U	170	35	20	ug/kg	
83-32-9	Acenaphthene	35 U	170	35	19	ug/kg	
208-96-8	Acenaphthylene	35 U	170	35	17	ug/kg	
62-53-3	Aniline	70 U	170	70	37	ug/kg	
120-12-7	Anthracene	35 U	170	35	20	ug/kg	
92-87-5	Benzidine	870 U	1700	870	350	ug/kg	
56-55-3	Benzo(a)anthracene	35 U	170	35	17	ug/kg	
50-32-8	Benzo(a)pyrene	35 U	170	35	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	35 U	170	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	35 U	170	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	35 U	170	35	23	ug/kg	
100-51-6	Benzyl Alcohol	35 U	170	35	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	35 U	170	35	18	ug/kg	
85-68-7	Butyl benzyl phthalate	70 U	170	70	35	ug/kg	
86-74-8	Carbazole	35 U	170	35	24	ug/kg	
106-47-8	4-Chloroaniline	70 U	170	70	44	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	35 U	170	35	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	35 U	170	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB4-SO-14	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-3	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.3
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	35 U	170	35	22	ug/kg	
91-58-7	2-Chloronaphthalene	35 U	170	35	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	35 U	170	35	17	ug/kg	
218-01-9	Chrysene	35 U	170	35	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	35 U	170	35	22	ug/kg	
132-64-9	Dibenzofuran	35 U	170	35	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	70 U	170	70	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	70 U	170	70	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	70 U	170	70	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	70 U	170	70	42	ug/kg	
84-66-2	Diethyl Phthalate	120 U	350	120	35	ug/kg	
131-11-3	Dimethyl Phthalate	70 U	170	70	35	ug/kg	
117-84-0	Di-n-octyl Phthalate	70 U	170	70	35	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	350	120	70	ug/kg	
121-14-2	2,4-Dinitrotoluene	35 U	170	35	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	35 U	170	35	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	35 U	170	35	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	350	120	35	ug/kg	
206-44-0	Fluoranthene	35 U	170	35	17	ug/kg	
86-73-7	Fluorene	35 U	170	35	19	ug/kg	
118-74-1	Hexachlorobenzene	35 U	170	35	18	ug/kg	
87-68-3	Hexachlorobutadiene	70 U	170	70	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	70 U	170	70	35	ug/kg	
67-72-1	Hexachloroethane	70 U	170	70	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	35 U	170	35	21	ug/kg	
78-59-1	Isophorone	35 U	170	35	17	ug/kg	
90-12-0	1-Methylnaphthalene	35 U	170	35	17	ug/kg	
91-57-6	2-Methylnaphthalene	35 U	170	35	17	ug/kg	
91-20-3	Naphthalene	35 U	170	35	17	ug/kg	
88-74-4	2-Nitroaniline	70 U	170	70	40	ug/kg	
99-09-2	3-Nitroaniline	70 U	170	70	20	ug/kg	
100-01-6	4-Nitroaniline	70 U	170	70	50	ug/kg	
98-95-3	Nitrobenzene	35 U	170	35	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	70 U	170	70	29	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	35 U	170	35	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	70 U	170	70	19	ug/kg	
85-01-8	Phenanthrene	35 U	170	35	17	ug/kg	
129-00-0	Pyrene	35 U	170	35	20	ug/kg	
110-86-1	Pyridine	120 U J	350	120	70	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	35 U	170	35	21	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SB4-SO-14	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-3	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.3
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	87%		40-102%
4165-62-2	Phenol-d5	137% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	95%		42-108%
4165-60-0	Nitrobenzene-d5	92%		40-105%
321-60-8	2-Fluorobiphenyl	89%		43-107%
1718-51-0	Terphenyl-d14	99%		45-119%

(a) Outside control limits.

U = Not detected	LOD = Limit of Detection	J = Indicates an estimated value
LOQ = Limit of Quantitation	DL = Detection Limit	B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB4-SO-14

Lab Sample ID: FA41805-3

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 94.3

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053865.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053978.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2	14.9 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	18 U J	35	18	9.0	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.8 U	3.5	1.8	0.99	ug/kg	
93-76-5	2,4,5-T	1.8 U	3.5	1.8	0.91	ug/kg	
1918-00-9	Dicamba	1.8 U	3.5	1.8	0.82	ug/kg	
88-85-7	Dinoseb	35 U	88	35	18	ug/kg	
75-99-0	Dalapon	70 U	180	70	35	ug/kg	
120-36-5	Dichloroprop	18 U	35	18	8.7	ug/kg	
94-82-6	2,4-DB	18 U	35	18	9.1	ug/kg	
93-65-2	MCPP	1800 U	3500	1800	900	ug/kg	
94-74-6	MCPA	2600 U	3500	2600	1700	ug/kg	
87-86-5	Pentachlorophenol	1.8 U V	3.5	1.8	0.74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	5% ^b	39%	31-132%

(a) Confirmation run for surrogates recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB4-SO-14

Lab Sample ID: FA41805-3

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 94.3

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82052.D	1	03/12/17	MV	03/10/17	OP64125	GKK2631
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.89 U	1.8	0.89	0.56	ug/kg	
319-84-6	alpha-BHC	0.89 U	1.8	0.89	0.56	ug/kg	
319-85-7	beta-BHC ^a	0.89 U	1.8	0.89	0.52	ug/kg	
319-86-8	delta-BHC ^a	0.89 U	1.8	0.89	0.51	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.89 U	1.8	0.89	0.53	ug/kg	
5103-71-9	alpha-Chlordane ^a	0.89 U	1.8	0.89	0.56	ug/kg	
5103-74-2	gamma-Chlordane ^a	0.89 U	1.8	0.89	0.51	ug/kg	
60-57-1	Dieldrin ^a	0.89 U	1.8	0.89	0.50	ug/kg	
72-54-8	4,4'-DDD ^a	0.89 U	3.6	0.89	0.49	ug/kg	
72-55-9	4,4'-DDE ^a	0.89 U	3.6	0.89	0.65	ug/kg	
50-29-3	4,4'-DDT ^a	0.89 U	3.6	0.89	0.54	ug/kg	
72-20-8	Endrin ^a	1.8 U	3.6	1.8	0.90	ug/kg	
1031-07-8	Endosulfan sulfate ^a	0.89 U	3.6	0.89	0.47	ug/kg	
7421-93-4	Endrin aldehyde ^a	0.89 U	3.6	0.89	0.41	ug/kg	
53494-70-5	Endrin ketone ^a	0.89 U	3.6	0.89	0.56	ug/kg	
959-98-8	Endosulfan-I	0.89 U	1.8	0.89	0.41	ug/kg	
33213-65-9	Endosulfan-II ^a	0.89 U	1.8	0.89	0.42	ug/kg	
76-44-8	Heptachlor	0.89 U	1.8	0.89	0.53	ug/kg	
1024-57-3	Heptachlor epoxide ^a	0.89 U	1.8	0.89	0.52	ug/kg	
72-43-5	Methoxychlor ^b	1.8 U	3.6	1.8	0.71	ug/kg	
8001-35-2	Toxaphene	44 U	89	44	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		50-122%
2051-24-3	Decachlorobiphenyl	119%		50-133%

(a) Associated CCV outside control limits.

(b) Associated CCV and BS outside control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB4-SO-14

Lab Sample ID: FA41805-3

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3546

Percent Solids: 94.3

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39652.D	1	03/10/17	NJ	03/09/17	OP64110	GMM763
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.9	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.7	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.7	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.9	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.9	ug/kg	
11097-69-1	Aroclor 1254	12 U	17	12	6.9	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		44-126%
2051-24-3	Decachlorobiphenyl	79%		41-145%

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB4-SO-14

Lab Sample ID: FA41805-3

Matrix: SO - Soil

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 94.3

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4020	42	10	1.8	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Antimony ^a	0.093 J	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Arsenic ^a	3.3	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Barium	200	8.3	4.2	0.83	mg/kg	200	03/21/17	03/23/17 DM	SW846 6020A ³	SW846 3050B ⁵
Beryllium ^a	0.23 J	0.42	0.21	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Cadmium ^a	0.094 J	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Calcium	176000	830	420	60	mg/kg	200	03/21/17	03/23/17 DM	SW846 6020A ³	SW846 3050B ⁵
Chromium ^a	3.9	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Cobalt ^a	1.9	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Copper ^a	2.1	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Iron ^a	3500	42	10	3.3	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Lead ^a	3.8	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Magnesium ^a	7570	42	21	2.2	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Manganese ^a	36.0	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Mercury	0.017 U	0.042	0.017	0.0042	mg/kg	1	03/14/17	03/14/17 JL	SW846 7471B ¹	SW846 7471B ⁴
Nickel ^a	4.9	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Potassium ^a	594	42	21	2.7	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Selenium ^a	1.1	0.42	0.21	0.075	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Silver ^a	0.21 U	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Sodium ^a	214	42	21	2.0	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Thallium ^a	0.21 U	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Vanadium ^a	12.0	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵
Zinc ^a	16.7 J	0.42	0.21	0.12	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A ²	SW846 3050B ⁵

(1) Instrument QC Batch: MA13891

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31783

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID:	FEIDS-SB5-SO-15	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-4	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.8
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y33937.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

Run #	Initial Weight	Final Volume
Run #1	6.41 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U J	39	20	7.8	ug/kg	
71-43-2	Benzene	1.6 U	3.9	1.6	0.95	ug/kg	
108-86-1	Bromobenzene	1.6 U	3.9	1.6	0.78	ug/kg	
74-97-5	Bromochloromethane	1.6 U	3.9	1.6	1.2	ug/kg	
75-27-4	Bromodichloromethane	1.6 U	3.9	1.6	0.78	ug/kg	
75-25-2	Bromoform	1.6 U	3.9	1.6	0.78	ug/kg	
78-93-3	2-Butanone (MEK)	12 U	20	12	5.7	ug/kg	
104-51-8	n-Butylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
135-98-8	sec-Butylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
98-06-6	tert-Butylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
75-15-0	Carbon Disulfide	1.6 U	3.9	1.6	0.78	ug/kg	
56-23-5	Carbon Tetrachloride	1.6 U	3.9	1.6	0.80	ug/kg	
108-90-7	Chlorobenzene	1.6 U	3.9	1.6	0.78	ug/kg	
75-00-3	Chloroethane	2.7 U	3.9	2.7	1.6	ug/kg	
67-66-3	Chloroform	1.6 U	3.9	1.6	1.0	ug/kg	
95-49-8	o-Chlorotoluene	1.6 U	3.9	1.6	0.78	ug/kg	
106-43-4	p-Chlorotoluene	1.6 U	3.9	1.6	0.78	ug/kg	
124-48-1	Dibromochloromethane	1.6 U	3.9	1.6	0.78	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.7 U	3.9	2.7	1.5	ug/kg	
106-93-4	1,2-Dibromoethane	1.6 U	3.9	1.6	0.78	ug/kg	
75-71-8	Dichlorodifluoromethane	2.7 U	3.9	2.7	1.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.6 U	3.9	1.6	0.78	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.6 U	3.9	1.6	0.78	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.6 U	3.9	1.6	0.90	ug/kg	
75-34-3	1,1-Dichloroethane	1.6 U	3.9	1.6	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	1.6 U	3.9	1.6	0.78	ug/kg	
75-35-4	1,1-Dichloroethylene	1.6 U	3.9	1.6	0.78	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.6 U	3.9	1.6	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.6 U	3.9	1.6	0.78	ug/kg	
78-87-5	1,2-Dichloropropane	1.6 U	3.9	1.6	0.78	ug/kg	
142-28-9	1,3-Dichloropropane	1.6 U	3.9	1.6	0.78	ug/kg	
594-20-7	2,2-Dichloropropane	1.6 U	3.9	1.6	0.78	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB5-SO-15		
Lab Sample ID:	FA41805-4	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8260B	Percent Solids:	94.8
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.6 U J	3.9	1.6	0.80	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.6 U	3.9	1.6	0.78	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.6 U	3.9	1.6	0.78	ug/kg	
100-41-4	Ethylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
87-68-3	Hexachlorobutadiene	1.6 U	3.9	1.6	1.0	ug/kg	
591-78-6	2-Hexanone	12 U	20	12	5.9	ug/kg	
98-82-8	Isopropylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
99-87-6	p-Isopropyltoluene	1.6 U	3.9	1.6	0.78	ug/kg	
74-83-9	Methyl Bromide	2.7 U	3.9	2.7	1.6	ug/kg	
74-87-3	Methyl Chloride	2.7 U	3.9	2.7	1.6	ug/kg	
74-95-3	Methylene Bromide	1.6 U	3.9	1.6	0.78	ug/kg	
75-09-2	Methylene Chloride	3.9 U	7.8	3.9	3.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	12 U	20	12	5.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.6 U	3.9	1.6	0.78	ug/kg	
91-20-3	Naphthalene	2.7 U	3.9	2.7	1.6	ug/kg	
103-65-1	n-Propylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
100-42-5	Styrene	1.6 U	3.9	1.6	0.78	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.6 U	3.9	1.6	0.80	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.6 U	3.9	1.6	0.78	ug/kg	
127-18-4	Tetrachloroethylene	1.6 U	3.9	1.6	1.0	ug/kg	
108-88-3	Toluene	1.6 U	3.9	1.6	0.78	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.7 U	3.9	2.7	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.7 U	3.9	2.7	0.78	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.6 U	3.9	1.6	0.78	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.6 U	3.9	1.6	0.78	ug/kg	
79-01-6	Trichloroethylene	1.6 U	3.9	1.6	0.78	ug/kg	
75-69-4	Trichlorofluoromethane	2.7 U	3.9	2.7	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.7 U	3.9	2.7	0.98	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.6 U	3.9	1.6	0.78	ug/kg	
108-05-4	Vinyl Acetate	16 U	20	16	13	ug/kg	
75-01-4	Vinyl Chloride	1.6 U	3.9	1.6	0.78	ug/kg	
	m,p-Xylene	3.1 U	7.8	3.1	0.86	ug/kg	
95-47-6	o-Xylene	1.6 U X	3.9	1.6	0.78	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		75-124%
17060-07-0	1,2-Dichloroethane-D4	110%		72-135%
2037-26-5	Toluene-D8	101%		75-126%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB5-SO-15

Lab Sample ID: FA41805-4

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 94.8

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB5-SO-15

Lab Sample ID: FA41805-4

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 94.8

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052854.D	1	03/14/17	NG	03/10/17	OP64127	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	29.8 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	350 U	880	350	180	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	35 U	180	35	20	ug/kg	
95-57-8	2-Chlorophenol	35 U	180	35	22	ug/kg	
120-83-2	2,4-Dichlorophenol	35 U	180	35	20	ug/kg	
105-67-9	2,4-Dimethylphenol	71 U	180	71	47	ug/kg	
51-28-5	2,4-Dinitrophenol	530 U	880	530	180	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	350	140	71	ug/kg	
95-48-7	2-Methylphenol	35 U	180	35	21	ug/kg	
	3&4-Methylphenol	71 U	180	71	29	ug/kg	
88-75-5	2-Nitrophenol	35 U	180	35	19	ug/kg	
100-02-7	4-Nitrophenol	350 U	880	350	180	ug/kg	
87-86-5	Pentachlorophenol	350 U	880	350	180	ug/kg	
108-95-2	Phenol	35 U	180	35	18	ug/kg	
95-95-4	2,4,5-Trichlorophenol	35 U	180	35	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	35 U	180	35	20	ug/kg	
83-32-9	Acenaphthene	35 U	180	35	19	ug/kg	
208-96-8	Acenaphthylene	35 U	180	35	18	ug/kg	
62-53-3	Aniline	71 U	180	71	38	ug/kg	
120-12-7	Anthracene	35 U	180	35	20	ug/kg	
92-87-5	Benzidine	880 U	1800	880	350	ug/kg	
56-55-3	Benzo(a)anthracene	35 U	180	35	18	ug/kg	
50-32-8	Benzo(a)pyrene	35 U	180	35	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	35 U	180	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	35 U	180	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	35 U	180	35	23	ug/kg	
100-51-6	Benzyl Alcohol	35 U	180	35	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	35 U	180	35	18	ug/kg	
85-68-7	Butyl benzyl phthalate	71 U	180	71	35	ug/kg	
86-74-8	Carbazole	35 U	180	35	25	ug/kg	
106-47-8	4-Chloroaniline	71 U	180	71	45	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	35 U	180	35	18	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	35 U	180	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB5-SO-15		
Lab Sample ID:	FA41805-4	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8270D SW846 3550C	Percent Solids:	94.8
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	35 U	180	35	22	ug/kg	
91-58-7	2-Chloronaphthalene	35 U	180	35	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	35 U	180	35	18	ug/kg	
218-01-9	Chrysene	35 U	180	35	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	35 U	180	35	22	ug/kg	
132-64-9	Dibenzofuran	35 U	180	35	18	ug/kg	
95-50-1	1,2-Dichlorobenzene	71 U	180	71	18	ug/kg	
541-73-1	1,3-Dichlorobenzene	71 U	180	71	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	71 U	180	71	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	71 U	180	71	42	ug/kg	
84-66-2	Diethyl Phthalate	120 U	350	120	35	ug/kg	
131-11-3	Dimethyl Phthalate	71 U	180	71	35	ug/kg	
117-84-0	Di-n-octyl Phthalate	71 U	180	71	35	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	350	120	71	ug/kg	
121-14-2	2,4-Dinitrotoluene	35 U	180	35	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	35 U	180	35	23	ug/kg	
122-66-7	1,2-Diphenylhydrazine	35 U	180	35	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	350	120	35	ug/kg	
206-44-0	Fluoranthene	35 U	180	35	18	ug/kg	
86-73-7	Fluorene	35 U	180	35	19	ug/kg	
118-74-1	Hexachlorobenzene	35 U	180	35	18	ug/kg	
87-68-3	Hexachlorobutadiene	71 U	180	71	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	71 U	180	71	35	ug/kg	
67-72-1	Hexachloroethane	71 U	180	71	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	35 U	180	35	22	ug/kg	
78-59-1	Isophorone	35 U	180	35	18	ug/kg	
90-12-0	1-Methylnaphthalene	35 U	180	35	18	ug/kg	
91-57-6	2-Methylnaphthalene	35 U	180	35	18	ug/kg	
91-20-3	Naphthalene	35 U	180	35	18	ug/kg	
88-74-4	2-Nitroaniline	71 U	180	71	41	ug/kg	
99-09-2	3-Nitroaniline	71 U	180	71	21	ug/kg	
100-01-6	4-Nitroaniline	71 U	180	71	51	ug/kg	
98-95-3	Nitrobenzene	35 U	180	35	18	ug/kg	
62-75-9	N-Nitrosodimethylamine	71 U	180	71	30	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	35 U	180	35	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	71 U	180	71	19	ug/kg	
85-01-8	Phenanthrene	35 U	180	35	18	ug/kg	
129-00-0	Pyrene	35 U	180	35	20	ug/kg	
110-86-1	Pyridine	120 U J	350	120	71	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	35 U	180	35	21	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SR5-SO-15

Lab Sample ID: FA41805-4

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 94.8

Project: Far East Dump Site, Fort Bliss, TX

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	81%		40-102%
4165-62-2	Phenol-d5	126% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	84%		42-108%
4165-60-0	Nitrobenzene-d5	84%		40-105%
321-60-8	2-Fluorobiphenyl	80%		43-107%
1718-51-0	Terphenyl-d14	88%		45-119%

(a) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID:	FEIDS-SB5-SO-15	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-4	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.8
Method:	SW846 8151A SW846 3546		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053866.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053979.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2	15.3 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	18 U J	35	18	9.0	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.8 U	3.5	1.8	0.99	ug/kg	
93-76-5	2,4,5-T	1.8 U	3.5	1.8	0.91	ug/kg	
1918-00-9	Dicamba	1.8 U	3.5	1.8	0.82	ug/kg	
88-85-7	Dinoseb	35 U	88	35	18	ug/kg	
75-99-0	Dalapon	70 U	180	70	35	ug/kg	
120-36-5	Dichloroprop	18 U	35	18	8.7	ug/kg	
94-82-6	2,4-DB	18 U	35	18	9.1	ug/kg	
93-65-2	MCPP	1800 U	3500	1800	900	ug/kg	
94-74-6	MCPA	2600 U	3500	2600	1700	ug/kg	
87-86-5	Pentachlorophenol	1.8 U	3.5	1.8	0.74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	7% ^b	44%	31-132%

(a) Confirmation run for surrogates recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB5-SO-15

Lab Sample ID: FA41805-4

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 94.8

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82053.D	1	03/12/17	MV	03/10/17	OP64125	GKK2631
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.88 U	1.8	0.88	0.56	ug/kg	
319-84-6	alpha-BHC	0.88 U	1.8	0.88	0.56	ug/kg	
319-85-7	beta-BHC ^a	0.88 U	1.8	0.88	0.52	ug/kg	
319-86-8	delta-BHC ^a	0.88 U	1.8	0.88	0.50	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.88 U	1.8	0.88	0.53	ug/kg	
5103-71-9	alpha-Chlordane ^a	0.88 U	1.8	0.88	0.55	ug/kg	
5103-74-2	gamma-Chlordane ^a	0.88 U	1.8	0.88	0.51	ug/kg	
60-57-1	Dieldrin ^a	0.88 U	1.8	0.88	0.50	ug/kg	
72-54-8	4,4'-DDD ^a	0.88 U	3.5	0.88	0.49	ug/kg	
72-55-9	4,4'-DDE ^a	0.88 U	3.5	0.88	0.64	ug/kg	
50-29-3	4,4'-DDT ^a	0.88 U	3.5	0.88	0.54	ug/kg	
72-20-8	Endrin ^a	1.8 U	3.5	1.8	0.90	ug/kg	
1031-07-8	Endosulfan sulfate ^a	0.88 U	3.5	0.88	0.47	ug/kg	
7421-93-4	Endrin aldehyde ^a	0.88 U	3.5	0.88	0.41	ug/kg	
53494-70-5	Endrin ketone ^a	0.88 U	3.5	0.88	0.56	ug/kg	
959-98-8	Endosulfan-I	0.88 U	1.8	0.88	0.41	ug/kg	
33213-65-9	Endosulfan-II ^a	0.88 U	1.8	0.88	0.42	ug/kg	
76-44-8	Heptachlor	0.88 U	1.8	0.88	0.52	ug/kg	
1024-57-3	Heptachlor epoxide ^a	0.88 U	1.8	0.88	0.52	ug/kg	
72-43-5	Methoxychlor ^b	1.8 U	3.5	1.8	0.71	ug/kg	
8001-35-2	Toxaphene	44 U	88	44	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	116%		50-122%
2051-24-3	Decachlorobiphenyl	127%		50-133%

(a) Associated CCV outside control limits.

(b) Associated CCV and BS outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB5-SO-15

Lab Sample ID: FA41805-4

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3546

Percent Solids: 94.8

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39653.D	1	03/10/17	NJ	03/09/17	OP64110	GMM763
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	7.0	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.7	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.7	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	7.0	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	7.0	ug/kg	
11097-69-1	Aroclor 1254	12 U	17	12	7.0	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	7.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		44-126%
2051-24-3	Decachlorobiphenyl	83%		41-145%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB5-SO-15

Lab Sample ID: FA41805-4

Matrix: SO - Soil

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 94.8

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4240	45	11	2.0	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Antimony ^a	0.090 J	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Arsenic ^a	3.4	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Barium	210	9.0	4.5	0.90	mg/kg	200	03/21/17	03/23/17 DM	SW846 6020A	³ SW846 3050B ⁵
Beryllium ^a	0.19 J	0.45	0.23	0.049	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Cadmium ^a	0.093 J	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Calcium	184000	900	450	65	mg/kg	200	03/21/17	03/23/17 DM	SW846 6020A	³ SW846 3050B ⁵
Chromium ^a	4.0	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Cobalt ^a	2.1	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Copper ^a	2.2	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Iron ^a	3620	45	11	3.6	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Lead ^a	3.9	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Magnesium ^a	7780	45	23	2.3	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Manganese ^a	36.7	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Mercury	0.0099 J	0.043	0.017	0.0043	mg/kg	1	03/15/17	03/15/17 JL	SW846 7471B	¹ SW846 7471B ⁴
Nickel ^a	5.4	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Potassium ^a	619	45	23	3.0	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Selenium ^a	1.3	0.45	0.23	0.081	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Silver ^a	0.23 U	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Sodium ^a	224	45	23	2.2	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Thallium ^a	0.23 U	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Vanadium ^a	12.3	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Zinc ^a	16.5 J	0.45	0.23	0.13	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID:	FEIDS-SB6-SO-16	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-5	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	95.2
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33938.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

Run #	Initial Weight	Final Volume
Run #1	6.95 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	18 U J	36	18	7.2	ug/kg	
71-43-2	Benzene	1.4 U	3.6	1.4	0.88	ug/kg	
108-86-1	Bromobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
74-97-5	Bromochloromethane	1.4 U	3.6	1.4	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-25-2	Bromoform	1.4 U	3.6	1.4	0.72	ug/kg	
78-93-3	2-Butanone (MEK)	11 U	18	11	5.2	ug/kg	
104-51-8	n-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
135-98-8	sec-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
98-06-6	tert-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
75-15-0	Carbon Disulfide	1.4 U	3.6	1.4	0.72	ug/kg	
56-23-5	Carbon Tetrachloride	1.4 U	3.6	1.4	0.73	ug/kg	
108-90-7	Chlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
75-00-3	Chloroethane	2.5 U	3.6	2.5	1.4	ug/kg	
67-66-3	Chloroform	1.4 U	3.6	1.4	0.96	ug/kg	
95-49-8	o-Chlorotoluene	1.4 U	3.6	1.4	0.72	ug/kg	
106-43-4	p-Chlorotoluene	1.4 U	3.6	1.4	0.72	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	3.6	1.4	0.72	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.5 U	3.6	2.5	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-71-8	Dichlorodifluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.4 U	3.6	1.4	0.83	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.6	1.4	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	3.6	1.4	0.99	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	3.6	1.4	0.72	ug/kg	
142-28-9	1,3-Dichloropropane	1.4 U	3.6	1.4	0.72	ug/kg	
594-20-7	2,2-Dichloropropane	1.4 U V	3.6	1.4	0.72	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS

Report of Analysis

Client Sample ID:	FEIDS-SB6-SO-16	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-5	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	95.2
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.4 U J	3.6	1.4	0.73	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	3.6	1.4	0.72	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	3.6	1.4	0.72	ug/kg	
100-41-4	Ethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
87-68-3	Hexachlorobutadiene	1.4 U	3.6	1.4	0.93	ug/kg	
591-78-6	2-Hexanone	11 U	18	11	5.4	ug/kg	
98-82-8	Isopropylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
99-87-6	p-Isopropyltoluene	1.4 U	3.6	1.4	0.72	ug/kg	
74-83-9	Methyl Bromide	2.5 U	3.6	2.5	1.4	ug/kg	
74-87-3	Methyl Chloride	2.5 U	3.6	2.5	1.4	ug/kg	
74-95-3	Methylene Bromide	1.4 U	3.6	1.4	0.72	ug/kg	
75-09-2	Methylene Chloride	3.6 U	7.2	3.6	2.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	11 U	18	11	5.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.4 U	3.6	1.4	0.72	ug/kg	
91-20-3	Naphthalene	2.5 U	3.6	2.5	1.4	ug/kg	
103-65-1	n-Propylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
100-42-5	Styrene	1.4 U	3.6	1.4	0.72	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.4 U	3.6	1.4	0.74	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	3.6	1.4	0.92	ug/kg	
108-88-3	Toluene	1.4 U	3.6	1.4	0.72	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	3.6	2.5	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	3.6	2.5	0.72	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
79-01-6	Trichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
75-69-4	Trichlorofluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.5 U	3.6	2.5	0.90	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
108-05-4	Vinyl Acetate	14 U	18	14	12	ug/kg	
75-01-4	Vinyl Chloride	1.4 U	3.6	1.4	0.72	ug/kg	
	m,p-Xylene	2.9 U	7.2	2.9	0.79	ug/kg	
95-47-6	o-Xylene	1.4 U	3.6	1.4	0.72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		75-124%
17060-07-0	1,2-Dichloroethane-D4	110%		72-135%
2037-26-5	Toluene-D8	100%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SB6-SO-16	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-5	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	95.2
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected	LOD = Limit of Detection	J = Indicates an estimated value
LOQ = Limit of Quantitation	DL = Detection Limit	B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID:	FEIDS-SB6-SO-16	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-5	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	95.2
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052855.D	1	03/14/17	NG	03/10/17	OP64127	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	29.7 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	350 U	880	350	180	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	35 U	180	35	20	ug/kg	
95-57-8	2-Chlorophenol	35 U	180	35	22	ug/kg	
120-83-2	2,4-Dichlorophenol	35 U	180	35	20	ug/kg	
105-67-9	2,4-Dimethylphenol	71 U	180	71	47	ug/kg	
51-28-5	2,4-Dinitrophenol	530 U	880	530	180	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	350	140	71	ug/kg	
95-48-7	2-Methylphenol	35 U	180	35	21	ug/kg	
	3&4-Methylphenol	71 U	180	71	29	ug/kg	
88-75-5	2-Nitrophenol	35 U	180	35	19	ug/kg	
100-02-7	4-Nitrophenol	350 U	880	350	180	ug/kg	
87-86-5	Pentachlorophenol	350 U	880	350	180	ug/kg	
108-95-2	Phenol	35 U	180	35	18	ug/kg	
95-95-4	2,4,5-Trichlorophenol	35 U	180	35	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	35 U	180	35	20	ug/kg	
83-32-9	Acenaphthene	35 U	180	35	19	ug/kg	
208-96-8	Acenaphthylene	35 U	180	35	18	ug/kg	
62-53-3	Aniline	71 U	180	71	38	ug/kg	
120-12-7	Anthracene	35 U	180	35	20	ug/kg	
92-87-5	Benzidine	880 U	1800	880	350	ug/kg	
56-55-3	Benzo(a)anthracene	35 U	180	35	18	ug/kg	
50-32-8	Benzo(a)pyrene	35 U	180	35	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	35 U	180	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	35 U	180	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	35 U	180	35	23	ug/kg	
100-51-6	Benzyl Alcohol	35 U	180	35	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	35 U	180	35	18	ug/kg	
85-68-7	Butyl benzyl phthalate	71 U	180	71	35	ug/kg	
86-74-8	Carbazole	35 U	180	35	25	ug/kg	
106-47-8	4-Chloroaniline	71 U	180	71	45	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	35 U	180	35	18	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	35 U	180	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB6-SO-16		
Lab Sample ID:	FA41805-5	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8270D SW846 3550C	Percent Solids:	95.2
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	35 U	180	35	22	ug/kg	
91-58-7	2-Chloronaphthalene	35 U	180	35	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	35 U	180	35	18	ug/kg	
218-01-9	Chrysene	35 U	180	35	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	35 U	180	35	22	ug/kg	
132-64-9	Dibenzofuran	35 U	180	35	18	ug/kg	
95-50-1	1,2-Dichlorobenzene	71 U	180	71	18	ug/kg	
541-73-1	1,3-Dichlorobenzene	71 U	180	71	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	71 U	180	71	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	71 U	180	71	42	ug/kg	
84-66-2	Diethyl Phthalate	120 U	350	120	35	ug/kg	
131-11-3	Dimethyl Phthalate	71 U	180	71	35	ug/kg	
117-84-0	Di-n-octyl Phthalate	71 U	180	71	35	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	350	120	71	ug/kg	
121-14-2	2,4-Dinitrotoluene	35 U	180	35	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	35 U	180	35	23	ug/kg	
122-66-7	1,2-Diphenylhydrazine	35 U	180	35	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	350	120	35	ug/kg	
206-44-0	Fluoranthene	35 U	180	35	18	ug/kg	
86-73-7	Fluorene	35 U	180	35	19	ug/kg	
118-74-1	Hexachlorobenzene	35 U	180	35	18	ug/kg	
87-68-3	Hexachlorobutadiene	71 U	180	71	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	71 U	180	71	35	ug/kg	
67-72-1	Hexachloroethane	71 U	180	71	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	35 U	180	35	22	ug/kg	
78-59-1	Isophorone	35 U	180	35	18	ug/kg	
90-12-0	1-Methylnaphthalene	35 U	180	35	18	ug/kg	
91-57-6	2-Methylnaphthalene	35 U	180	35	18	ug/kg	
91-20-3	Naphthalene	35 U	180	35	18	ug/kg	
88-74-4	2-Nitroaniline	71 U	180	71	41	ug/kg	
99-09-2	3-Nitroaniline	71 U	180	71	21	ug/kg	
100-01-6	4-Nitroaniline	71 U	180	71	51	ug/kg	
98-95-3	Nitrobenzene	35 U	180	35	18	ug/kg	
62-75-9	N-Nitrosodimethylamine	71 U	180	71	29	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	35 U	180	35	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	71 U	180	71	19	ug/kg	
85-01-8	Phenanthrene	35 U	180	35	18	ug/kg	
129-00-0	Pyrene	35 U	180	35	20	ug/kg	
110-86-1	Pyridine	120 U J	350	120	71	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	35 U	180	35	21	ug/kg	

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB6-SO-16

Lab Sample ID: FA41805-5

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 95.2

Project: Far East Dump Site, Fort Bliss, TX

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	85%		40-102%
4165-62-2	Phenol-d5	131% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	86%		42-108%
4165-60-0	Nitrobenzene-d5	88%		40-105%
321-60-8	2-Fluorobiphenyl	85%		43-107%
1718-51-0	Terphenyl-d14	91%		45-119%

(a) Outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID:	FEIDS-SB6-SO-16	
Lab Sample ID:	FA41805-5	Date Sampled: 03/06/17
Matrix:	SO - Soil	Date Received: 03/07/17
Method:	SW846 8151A SW846 3546	Percent Solids: 95.2
Project:	Far East Dump Site, Fort Bliss, TX	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053867.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053980.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2	15.2 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	34	17	8.8	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.4	1.7	0.96	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.4	1.7	0.89	ug/kg	
1918-00-9	Dicamba	1.7 U	3.4	1.7	0.80	ug/kg	
88-85-7	Dinoseb	34 U	86	34	17	ug/kg	
75-99-0	Dalapon	69 U	170	69	34	ug/kg	
120-36-5	Dichloroprop	17 U	34	17	8.5	ug/kg	
94-82-6	2,4-DB	17 U	34	17	8.9	ug/kg	
93-65-2	MCP	1700 U	3400	1700	880	ug/kg	
94-74-6	MCPA	2600 U	3400	2600	1700	ug/kg	
87-86-5	Pentachlorophenol	1.7 U	3.4	1.7	0.72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^b	35%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID:	FEIDS-SB6-SO-16	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-5	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	95.2
Method:	SW846 8081B SW846 3546		
Project:	Far East Dump Site, Fort Bliss, TX		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82054.D	1	03/12/17	MV	03/10/17	OP64125	GKK2631
Run #2							

Run #	Initial Weight	Final Volume
Run #1	14.8 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.89 U	1.8	0.89	0.56	ug/kg	
319-84-6	alpha-BHC	0.89 U	1.8	0.89	0.56	ug/kg	
319-85-7	beta-BHC ^a	0.89 U	1.8	0.89	0.52	ug/kg	
319-86-8	delta-BHC ^a	0.89 U	1.8	0.89	0.50	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.89 U	1.8	0.89	0.53	ug/kg	
5103-71-9	alpha-Chlordane ^a	0.89 U	1.8	0.89	0.55	ug/kg	
5103-74-2	gamma-Chlordane ^a	0.89 U	1.8	0.89	0.51	ug/kg	
60-57-1	Dieldrin ^a	0.89 U	1.8	0.89	0.50	ug/kg	
72-54-8	4,4'-DDD ^a	0.89 U	3.5	0.89	0.49	ug/kg	
72-55-9	4,4'-DDE ^a	0.89 U	3.5	0.89	0.65	ug/kg	
50-29-3	4,4'-DDT ^a	0.89 U	3.5	0.89	0.54	ug/kg	
72-20-8	Endrin ^a	1.8 U	3.5	1.8	0.90	ug/kg	
1031-07-8	Endosulfan sulfate ^a	0.89 U	3.5	0.89	0.47	ug/kg	
7421-93-4	Endrin aldehyde ^a	0.89 U	3.5	0.89	0.41	ug/kg	
53494-70-5	Endrin ketone ^a	0.89 U	3.5	0.89	0.56	ug/kg	
959-98-8	Endosulfan-I	0.89 U	1.8	0.89	0.41	ug/kg	
33213-65-9	Endosulfan-II ^a	0.89 U	1.8	0.89	0.42	ug/kg	
76-44-8	Heptachlor	0.89 U	1.8	0.89	0.53	ug/kg	
1024-57-3	Heptachlor epoxide ^a	0.89 U	1.8	0.89	0.52	ug/kg	
72-43-5	Methoxychlor ^b	1.8 U	3.5	1.8	0.71	ug/kg	
8001-35-2	Toxaphene	44 U	89	44	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		50-122%
2051-24-3	Decachlorobiphenyl	128%		50-133%

(a) Associated CCV outside control limits.

(b) Associated CCV and BS outside control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB6-SO-16

Lab Sample ID: FA41805-5

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3546

Percent Solids: 95.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39654.D	1	03/10/17	NJ	03/09/17	OP64110	GMM763
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.8	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.5	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.5	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.8	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.8	ug/kg	
11097-69-1	Aroclor 1254	12 U	17	12	6.8	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		44-126%
2051-24-3	Decachlorobiphenyl	86%		41-145%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB6-SO-16

Lab Sample ID: FA41805-5

Matrix: SO - Soil

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 95.2

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4680	48	12	2.1	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Antimony ^a	0.10 J	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Arsenic ^a	2.6	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Barium	126	9.6	4.8	0.96	mg/kg	200	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Beryllium ^a	0.24 J	0.48	0.24	0.052	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cadmium ^a	0.048 J	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Calcium	99400	960	480	69	mg/kg	200	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Chromium ^a	5.4	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cobalt ^a	2.1	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Copper ^a	2.2	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Iron ^a	4770	48	12	3.8	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Lead ^a	2.7	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Magnesium ^a	3950	48	24	2.5	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Manganese ^a	50.1	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Mercury	0.010 J	0.042	0.017	0.0042	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ⁴
Nickel ^a	4.3	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Potassium ^a	852	48	24	3.2	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Selenium ^a	1.5	0.48	0.24	0.087	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Silver ^a	0.24 U	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Sodium ^a	228	48	24	2.3	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Thallium ^a	0.24 U	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Vanadium ^a	11.0	0.48	0.24	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Zinc ^a	12.7 J	0.48	0.24	0.14	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

(b) (6)

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID:	FEIDS-SB7-SO-17	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-6	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.0
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33939.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

	Initial Weight	Final Volume
Run #1	6.28 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	20 U J	40	20	8.0	ug/kg	
71-43-2	Benzene	1.6 U	4.0	1.6	0.97	ug/kg	
108-86-1	Bromobenzene	1.6 U	4.0	1.6	0.80	ug/kg	
74-97-5	Bromochloromethane	1.6 U	4.0	1.6	1.2	ug/kg	
75-27-4	Bromodichloromethane	1.6 U	4.0	1.6	0.80	ug/kg	
75-25-2	Bromoform	1.6 U	4.0	1.6	0.80	ug/kg	
78-93-3	2-Butanone (MEK)	12 U	20	12	5.8	ug/kg	
104-51-8	n-Butylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
135-98-8	sec-Butylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
98-06-6	tert-Butylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
75-15-0	Carbon Disulfide	1.6 U	4.0	1.6	0.80	ug/kg	
56-23-5	Carbon Tetrachloride	1.6 U	4.0	1.6	0.81	ug/kg	
108-90-7	Chlorobenzene	1.6 U	4.0	1.6	0.80	ug/kg	
75-00-3	Chloroethane	2.8 U	4.0	2.8	1.6	ug/kg	
67-66-3	Chloroform	1.6 U	4.0	1.6	1.1	ug/kg	
95-49-8	o-Chlorotoluene	1.6 U	4.0	1.6	0.80	ug/kg	
106-43-4	p-Chlorotoluene	1.6 U	4.0	1.6	0.80	ug/kg	
124-48-1	Dibromochloromethane	1.6 U	4.0	1.6	0.80	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.8 U	4.0	2.8	1.5	ug/kg	
106-93-4	1,2-Dibromoethane	1.6 U	4.0	1.6	0.80	ug/kg	
75-71-8	Dichlorodifluoromethane	2.8 U	4.0	2.8	1.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.6 U	4.0	1.6	0.80	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.6 U	4.0	1.6	0.80	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.6 U	4.0	1.6	0.92	ug/kg	
75-34-3	1,1-Dichloroethane	1.6 U	4.0	1.6	1.4	ug/kg	
107-06-2	1,2-Dichloroethane	1.6 U	4.0	1.6	0.80	ug/kg	
75-35-4	1,1-Dichloroethylene	1.6 U	4.0	1.6	0.80	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.6 U	4.0	1.6	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.6 U	4.0	1.6	0.80	ug/kg	
78-87-5	1,2-Dichloropropane	1.6 U	4.0	1.6	0.80	ug/kg	
142-28-9	1,3-Dichloropropane	1.6 U	4.0	1.6	0.80	ug/kg	
594-20-7	2,2-Dichloropropane	1.6 U	4.0	1.6	0.80	ug/kg	

U = Not detected LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB7-SO-17		
Lab Sample ID:	FA41805-6	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8260B	Percent Solids:	94.0
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.6 U J	4.0	1.6	0.81	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.6 U	4.0	1.6	0.80	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.6 U	4.0	1.6	0.80	ug/kg	
100-41-4	Ethylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
87-68-3	Hexachlorobutadiene	1.6 U	4.0	1.6	1.0	ug/kg	
591-78-6	2-Hexanone	12 U	20	12	6.0	ug/kg	
98-82-8	Isopropylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
99-87-6	p-Isopropyltoluene	1.6 U	4.0	1.6	0.80	ug/kg	
74-83-9	Methyl Bromide	2.8 U	4.0	2.8	1.6	ug/kg	
74-87-3	Methyl Chloride	2.8 U	4.0	2.8	1.6	ug/kg	
74-95-3	Methylene Bromide	1.6 U	4.0	1.6	0.80	ug/kg	
75-09-2	Methylene Chloride	4.0 U	8.0	4.0	3.2	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	12 U	20	12	6.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.6 U	4.0	1.6	0.80	ug/kg	
91-20-3	Naphthalene	2.8 U	4.0	2.8	1.6	ug/kg	
103-65-1	n-Propylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
100-42-5	Styrene	1.6 U	4.0	1.6	0.80	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.6 U	4.0	1.6	0.82	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.6 U	4.0	1.6	0.80	ug/kg	
127-18-4	Tetrachloroethylene	1.6 U	4.0	1.6	1.0	ug/kg	
108-88-3	Toluene	1.6 U	4.0	1.6	0.80	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.8 U	4.0	2.8	1.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.8 U	4.0	2.8	0.80	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.6 U	4.0	1.6	0.80	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.6 U	4.0	1.6	0.80	ug/kg	
79-01-6	Trichloroethylene	1.6 U	4.0	1.6	0.80	ug/kg	
75-69-4	Trichlorofluoromethane	2.8 U	4.0	2.8	1.6	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.8 U	4.0	2.8	1.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.6 U	4.0	1.6	0.80	ug/kg	
108-05-4	Vinyl Acetate	16 U	20	16	13	ug/kg	
75-01-4	Vinyl Chloride	1.6 U	4.0	1.6	0.80	ug/kg	
	m,p-Xylene	3.2 U	8.0	3.2	0.88	ug/kg	
95-47-6	o-Xylene	1.6 U	4.0	1.6	0.80	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		75-124%
17060-07-0	1,2-Dichloroethane-D4	114%		72-135%
2037-26-5	Toluene-D8	101%		75-126%

U = Not detected LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB7-SO-17

Lab Sample ID: FA41805-6

Matrix: SO - Soil

Method: SW846 8260B

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 94.0

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB7-SO-17

Lab Sample ID: FA41805-6

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052856.D	1	03/14/17	NG	03/10/17	OP64127	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	350 U	880	350	180	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	35 U	180	35	20	ug/kg	
95-57-8	2-Chlorophenol	35 U	180	35	22	ug/kg	
120-83-2	2,4-Dichlorophenol	35 U	180	35	20	ug/kg	
105-67-9	2,4-Dimethylphenol	71 U	180	71	47	ug/kg	
51-28-5	2,4-Dinitrophenol	530 U	880	530	180	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	350	140	71	ug/kg	
95-48-7	2-Methylphenol	35 U	180	35	21	ug/kg	
	3&4-Methylphenol	71 U	180	71	29	ug/kg	
88-75-5	2-Nitrophenol	35 U	180	35	19	ug/kg	
100-02-7	4-Nitrophenol	350 U	880	350	180	ug/kg	
87-86-5	Pentachlorophenol	350 U	880	350	180	ug/kg	
108-95-2	Phenol	35 U	180	35	18	ug/kg	
95-95-4	2,4,5-Trichlorophenol	35 U	180	35	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	35 U	180	35	20	ug/kg	
83-32-9	Acenaphthene	35 U	180	35	19	ug/kg	
208-96-8	Acenaphthylene	35 U	180	35	18	ug/kg	
62-53-3	Aniline	71 U	180	71	38	ug/kg	
120-12-7	Anthracene	35 U	180	35	20	ug/kg	
92-87-5	Benzidine	880 U	1800	880	350	ug/kg	
56-55-3	Benzo(a)anthracene	35 U	180	35	18	ug/kg	
50-32-8	Benzo(a)pyrene	35 U	180	35	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	35 U	180	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	35 U	180	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	35 U	180	35	23	ug/kg	
100-51-6	Benzyl Alcohol	35 U	180	35	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	35 U	180	35	18	ug/kg	
85-68-7	Butyl benzyl phthalate	71 U	180	71	35	ug/kg	
86-74-8	Carbazole	35 U	180	35	25	ug/kg	
106-47-8	4-Chloroaniline	71 U	180	71	45	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	35 U	180	35	18	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	35 U	180	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SB7-SO-17

Lab Sample ID: FA41805-6

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	35 U	180	35	22	ug/kg	
91-58-7	2-Chloronaphthalene	35 U	180	35	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	35 U	180	35	18	ug/kg	
218-01-9	Chrysene	35 U	180	35	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	35 U	180	35	22	ug/kg	
132-64-9	Dibenzofuran	35 U	180	35	18	ug/kg	
95-50-1	1,2-Dichlorobenzene	71 U	180	71	18	ug/kg	
541-73-1	1,3-Dichlorobenzene	71 U	180	71	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	71 U	180	71	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	71 U	180	71	42	ug/kg	
84-66-2	Diethyl Phthalate	120 U	350	120	35	ug/kg	
131-11-3	Dimethyl Phthalate	71 U	180	71	35	ug/kg	
117-84-0	Di-n-octyl Phthalate	71 U	180	71	35	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	350	120	71	ug/kg	
121-14-2	2,4-Dinitrotoluene	35 U	180	35	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	35 U	180	35	23	ug/kg	
122-66-7	1,2-Diphenylhydrazine	35 U	180	35	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	350	120	35	ug/kg	
206-44-0	Fluoranthene	35 U	180	35	18	ug/kg	
86-73-7	Fluorene	35 U	180	35	19	ug/kg	
118-74-1	Hexachlorobenzene	35 U	180	35	18	ug/kg	
87-68-3	Hexachlorobutadiene	71 U	180	71	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	71 U	180	71	35	ug/kg	
67-72-1	Hexachloroethane	71 U	180	71	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	35 U	180	35	22	ug/kg	
78-59-1	Isophorone	35 U	180	35	18	ug/kg	
90-12-0	1-Methylnaphthalene	35 U	180	35	18	ug/kg	
91-57-6	2-Methylnaphthalene	35 U	180	35	18	ug/kg	
91-20-3	Naphthalene	35 U	180	35	18	ug/kg	
88-74-4	2-Nitroaniline	71 U	180	71	41	ug/kg	
99-09-2	3-Nitroaniline	71 U	180	71	21	ug/kg	
100-01-6	4-Nitroaniline	71 U	180	71	51	ug/kg	
98-95-3	Nitrobenzene	35 U	180	35	18	ug/kg	
62-75-9	N-Nitrosodimethylamine	71 U	180	71	29	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	35 U	180	35	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	71 U	180	71	19	ug/kg	
85-01-8	Phenanthrene	35 U	180	35	18	ug/kg	
129-00-0	Pyrene	35 U	180	35	20	ug/kg	
110-86-1	Pyridine	120 U J	350	120	71	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	35 U	180	35	21	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB7-SO-17

Lab Sample ID: FA41805-6

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	84%		40-102%
4165-62-2	Phenol-d5	130% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	87%		42-108%
4165-60-0	Nitrobenzene-d5	87%		40-105%
321-60-8	2-Fluorobiphenyl	87%		43-107%
1718-51-0	Terphenyl-d14	94%		45-119%

(a) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB7-SO-17

Lab Sample ID: FA41805-6

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053868.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053981.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2	14.9 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	18 U J	36	18	9.1	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.8 U	3.6	1.8	1.0	ug/kg	
93-76-5	2,4,5-T	1.8 U	3.6	1.8	0.92	ug/kg	
1918-00-9	Dicamba	1.8 U	3.6	1.8	0.84	ug/kg	
88-85-7	Dinoseb	36 U	89	36	18	ug/kg	
75-99-0	Dalapon	71 U	180	71	36	ug/kg	
120-36-5	Dichloroprop	18 U	36	18	8.9	ug/kg	
94-82-6	2,4-DB	18 U	36	18	9.2	ug/kg	
93-65-2	MCPP	1800 U	3600	1800	910	ug/kg	
94-74-6	MCPA	2700 U	3600	2700	1700	ug/kg	
87-86-5	Pentachlorophenol	1.8 U	3.6	1.8	0.75	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	6% ^b	34%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection

LOQ = Limit of Quantitation DL = Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB7-SO-17

Lab Sample ID: FA41805-6

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82055.D	1	03/12/17	MV	03/10/17	OP64125	GKK2631
Run #2							

	Initial Weight	Final Volume
Run #1	14.6 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.91 U	1.8	0.91	0.58	ug/kg	
319-84-6	alpha-BHC	0.91 U	1.8	0.91	0.58	ug/kg	
319-85-7	beta-BHC ^a	0.91 U	1.8	0.91	0.54	ug/kg	
319-86-8	delta-BHC ^a	0.91 U	1.8	0.91	0.52	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.91 U	1.8	0.91	0.55	ug/kg	
5103-71-9	alpha-Chlordane ^a	0.91 U	1.8	0.91	0.57	ug/kg	
5103-74-2	gamma-Chlordane ^a	0.91 U	1.8	0.91	0.52	ug/kg	
60-57-1	Dieldrin ^a	0.91 U	1.8	0.91	0.51	ug/kg	
72-54-8	4,4'-DDD ^a	0.91 U	3.6	0.91	0.50	ug/kg	
72-55-9	4,4'-DDE ^a	0.91 U	3.6	0.91	0.66	ug/kg	
50-29-3	4,4'-DDT ^a	0.91 U	3.6	0.91	0.56	ug/kg	
72-20-8	Endrin ^a	1.8 U	3.6	1.8	0.92	ug/kg	
1031-07-8	Endosulfan sulfate ^a	0.91 U	3.6	0.91	0.48	ug/kg	
7421-93-4	Endrin aldehyde ^a	0.91 U	3.6	0.91	0.42	ug/kg	
53494-70-5	Endrin ketone ^a	0.91 U	3.6	0.91	0.57	ug/kg	
959-98-8	Endosulfan-I	0.91 U	1.8	0.91	0.42	ug/kg	
33213-65-9	Endosulfan-II ^a	0.91 U	1.8	0.91	0.43	ug/kg	
76-44-8	Heptachlor	0.91 U	1.8	0.91	0.54	ug/kg	
1024-57-3	Heptachlor epoxide ^a	0.91 U	1.8	0.91	0.54	ug/kg	
72-43-5	Methoxychlor ^b	1.1 U	3.6	1.8	0.73	ug/kg	J
8001-35-2	Toxaphene	46 U	91	46	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		50-122%
2051-24-3	Decachlorobiphenyl	126%		50-133%

(a) Associated CCV outside control limits.

(b) Associated CCV and BS outside control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB7-SO-17

Lab Sample ID: FA41805-6

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3546

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39655.D	1	03/10/17	NJ	03/09/17	OP64110	GMM763
Run #2							

	Initial Weight	Final Volume
Run #1	14.6 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	13 U	18	13	7.3	ug/kg	
11104-28-2	Aroclor 1221	13 U	18	13	9.1	ug/kg	
11141-16-5	Aroclor 1232	13 U	18	13	9.1	ug/kg	
53469-21-9	Aroclor 1242	13 U	18	13	7.3	ug/kg	
12672-29-6	Aroclor 1248	13 U	18	13	7.3	ug/kg	
11097-69-1	Aroclor 1254	13 U	18	13	7.3	ug/kg	
11096-82-5	Aroclor 1260	13 U	18	13	7.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		44-126%
2051-24-3	Decachlorobiphenyl	77%		41-145%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB7-SO-17

Lab Sample ID: FA41805-6

Matrix: SO - Soil

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4860	46	12	2.0	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Antimony ^a	0.097 J	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Arsenic ^a	2.7	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Barium	102	9.3	4.6	0.93	mg/kg	200	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Beryllium ^a	0.17 J	0.46	0.23	0.050	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cadmium ^a	0.23 U	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Calcium	96000	930	460	67	mg/kg	200	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Chromium ^a	5.0	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cobalt ^a	2.1	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Copper ^a	2.1	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Iron ^a	4600	46	12	3.7	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Lead ^a	2.8	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Magnesium ^a	5360	46	23	2.4	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Manganese ^a	43.9	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Mercury	0.0085 J	0.041	0.016	0.0041	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ⁴
Nickel ^a	5.4	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Potassium ^a	797	46	23	3.0	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Selenium ^a	1.6	0.46	0.23	0.083	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Silver ^a	0.23 U	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Sodium ^a	178	46	23	2.2	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Thallium ^a	0.23 U	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Vanadium ^a	12.0	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Zinc ^a	11.4 J	0.46	0.23	0.13	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB8-SO-18

Lab Sample ID: FA41805-7

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 97.6

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33940.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

	Initial Weight	Final Volume
Run #1	7.01 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	18 U ^J	36	18	7.1	ug/kg	
71-43-2	Benzene	1.4 U	3.6	1.4	0.87	ug/kg	
108-86-1	Bromobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
74-97-5	Bromochloromethane	1.4 U	3.6	1.4	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	3.6	1.4	0.71	ug/kg	
75-25-2	Bromoform	1.4 U	3.6	1.4	0.71	ug/kg	
78-93-3	2-Butanone (MEK)	11 U	18	11	5.2	ug/kg	
104-51-8	n-Butylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
135-98-8	sec-Butylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
98-06-6	tert-Butylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
75-15-0	Carbon Disulfide	1.4 U	3.6	1.4	0.71	ug/kg	
56-23-5	Carbon Tetrachloride	1.4 U	3.6	1.4	0.73	ug/kg	
108-90-7	Chlorobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
75-00-3	Chloroethane	2.5 U	3.6	2.5	1.4	ug/kg	
67-66-3	Chloroform	1.4 U	3.6	1.4	0.95	ug/kg	
95-49-8	o-Chlorotoluene	1.4 U	3.6	1.4	0.71	ug/kg	
106-43-4	p-Chlorotoluene	1.4 U	3.6	1.4	0.71	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	3.6	1.4	0.71	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.5 U	3.6	2.5	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.4 U	3.6	1.4	0.71	ug/kg	
75-71-8	Dichlorodifluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.4 U	3.6	1.4	0.71	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.4 U	3.6	1.4	0.82	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.6	1.4	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	3.6	1.4	0.71	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	3.6	1.4	0.98	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	3.6	1.4	0.71	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	3.6	1.4	0.71	ug/kg	
142-28-9	1,3-Dichloropropane	1.4 U	3.6	1.4	0.71	ug/kg	
594-20-7	2,2-Dichloropropane	1.4 U ^V	3.6	1.4	0.71	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Client Sample ID:	FEIDS-SB8-SO-18	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-7	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	97.6
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.4 U ^J	3.6	1.4	0.73	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	3.6	1.4	0.71	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	3.6	1.4	0.71	ug/kg	
100-41-4	Ethylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
87-68-3	Hexachlorobutadiene	1.4 U	3.6	1.4	0.92	ug/kg	
591-78-6	2-Hexanone	11 U	18	11	5.3	ug/kg	
98-82-8	Isopropylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
99-87-6	p-Isopropyltoluene	1.4 U	3.6	1.4	0.71	ug/kg	
74-83-9	Methyl Bromide	2.5 U	3.6	2.5	1.4	ug/kg	
74-87-3	Methyl Chloride	2.5 U	3.6	2.5	1.4	ug/kg	
74-95-3	Methylene Bromide	1.4 U	3.6	1.4	0.71	ug/kg	
75-09-2	Methylene Chloride	3.6 U	7.1	3.6	2.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	11 U	18	11	5.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.4 U	3.6	1.4	0.71	ug/kg	
91-20-3	Naphthalene	2.5 U	3.6	2.5	1.4	ug/kg	
103-65-1	n-Propylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
100-42-5	Styrene	1.4 U	3.6	1.4	0.71	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.4 U	3.6	1.4	0.73	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	3.6	1.4	0.91	ug/kg	
108-88-3	Toluene	1.4 U	3.6	1.4	0.71	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	3.6	2.5	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	3.6	2.5	0.71	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	3.6	1.4	0.71	ug/kg	
79-01-6	Trichloroethylene	1.4 U	3.6	1.4	0.71	ug/kg	
75-69-4	Trichlorofluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.5 U	3.6	2.5	0.89	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.4 U	3.6	1.4	0.71	ug/kg	
108-05-4	Vinyl Acetate	14 U	18	14	12	ug/kg	
75-01-4	Vinyl Chloride	1.4 U	3.6	1.4	0.71	ug/kg	
	m,p-Xylene	2.9 U	7.1	2.9	0.78	ug/kg	
95-47-6	o-Xylene	1.4 U ^V	3.6	1.4	0.71	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		75-124%
17060-07-0	1,2-Dichloroethane-D4	113%		72-135%
2037-26-5	Toluene-D8	101%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB8-SO-18

Lab Sample ID: FA41805-7

Matrix: SO - Soil

Method: SW846 8260B

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 97.6

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB8-SO-18

Lab Sample ID: FA41805-7

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 97.6

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052857.D	1	03/14/17	NG	03/10/17	OP64127	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	29.6 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	350 U	870	350	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	35 U	170	35	20	ug/kg	
95-57-8	2-Chlorophenol	35 U	170	35	21	ug/kg	
120-83-2	2,4-Dichlorophenol	35 U	170	35	20	ug/kg	
105-67-9	2,4-Dimethylphenol	69 U	170	69	46	ug/kg	
51-28-5	2,4-Dinitrophenol	520 U	870	520	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	350	140	69	ug/kg	
95-48-7	2-Methylphenol	35 U	170	35	21	ug/kg	
	3&4-Methylphenol	69 U	170	69	28	ug/kg	
88-75-5	2-Nitrophenol	35 U	170	35	19	ug/kg	
100-02-7	4-Nitrophenol	350 U	870	350	170	ug/kg	
87-86-5	Pentachlorophenol	350 U	870	350	170	ug/kg	
108-95-2	Phenol	35 U	170	35	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	35 U	170	35	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	35 U	170	35	20	ug/kg	
83-32-9	Acenaphthene	35 U	170	35	18	ug/kg	
208-96-8	Acenaphthylene	35 U	170	35	17	ug/kg	
62-53-3	Aniline	69 U	170	69	37	ug/kg	
120-12-7	Anthracene	35 U	170	35	19	ug/kg	
92-87-5	Benzidine	870 U	1700	870	350	ug/kg	
56-55-3	Benzo(a)anthracene	35 U	170	35	17	ug/kg	
50-32-8	Benzo(a)pyrene	35 U	170	35	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	35 U	170	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	35 U	170	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	35 U	170	35	23	ug/kg	
100-51-6	Benzyl Alcohol	35 U	170	35	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	35 U	170	35	18	ug/kg	
85-68-7	Butyl benzyl phthalate	69 U	170	69	35	ug/kg	
86-74-8	Carbazole	35 U	170	35	24	ug/kg	
106-47-8	4-Chloroaniline	69 U	170	69	44	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	35 U	170	35	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	35 U	170	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB8-SO-18		
Lab Sample ID:	FA41805-7	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8270D SW846 3550C	Percent Solids:	97.6
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	35 U	170	35	22	ug/kg	
91-58-7	2-Chloronaphthalene	35 U	170	35	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	35 U	170	35	17	ug/kg	
218-01-9	Chrysene	35 U	170	35	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	35 U	170	35	22	ug/kg	
132-64-9	Dihenzofuran	35 U	170	35	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	69 U	170	69	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	69 U	170	69	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	69 U	170	69	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	69 U	170	69	41	ug/kg	
84-66-2	Diethyl Phthalate	120 U	350	120	35	ug/kg	
131-11-3	Dimethyl Phthalate	69 U	170	69	35	ug/kg	
117-84-0	Di-n-octyl Phthalate	69 U	170	69	35	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	350	120	69	ug/kg	
121-14-2	2,4-Dinitrotoluene	35 U	170	35	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	35 U	170	35	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	35 U	170	35	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	350	120	35	ug/kg	
206-44-0	Fluoranthene	35 U	170	35	17	ug/kg	
86-73-7	Fluorene	35 U	170	35	19	ug/kg	
118-74-1	Hexachlorobenzene	35 U	170	35	18	ug/kg	
87-68-3	Hexachlorobutadiene	69 U	170	69	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	69 U	170	69	35	ug/kg	
67-72-1	Hexachloroethane	69 U	170	69	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	35 U	170	35	21	ug/kg	
78-59-1	Isophorone	35 U	170	35	17	ug/kg	
90-12-0	1-Methylnaphthalene	35 U	170	35	17	ug/kg	
91-57-6	2-Methylnaphthalene	35 U	170	35	17	ug/kg	
91-20-3	Naphthalene	35 U	170	35	17	ug/kg	
88-74-4	2-Nitroaniline	69 U	170	69	40	ug/kg	
99-09-2	3-Nitroaniline	69 U	170	69	20	ug/kg	
100-01-6	4-Nitroaniline	69 U	170	69	50	ug/kg	
98-95-3	Nitrobenzene	35 U	170	35	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	69 U	170	69	29	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	35 U	170	35	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	69 U	170	69	19	ug/kg	
85-01-8	Phenanthrene	35 U	170	35	17	ug/kg	
129-00-0	Pyrene	35 U	170	35	20	ug/kg	
110-86-1	Pyridine	120 U <i>5</i>	350	120	69	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	35 U	170	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB8-SO-18

Lab Sample ID: FA41805-7

Matrix: SO - Soil

Method: SW846 8270D SW846 3550C

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 97.6

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	92%		40-102%
4165-62-2	Phenol-d5	140% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	89%		42-108%
4165-60-0	Nitrobenzene-d5	93%		40-105%
321-60-8	2-Fluorobiphenyl	90%		43-107%
1718-51-0	Terphenyl-d14	95%		45-119%

(a) Outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB8-SO-18

Lab Sample ID: FA41805-7

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 97.6

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053869.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053984.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2	14.7 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	34	17	8.7	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.4	1.7	0.96	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.4	1.7	0.88	ug/kg	
1918-00-9	Dicamba	1.7 U	3.4	1.7	0.80	ug/kg	
88-85-7	Dinoseb	34 U	85	34	17	ug/kg	
75-99-0	Dalapon	68 U	170	68	34	ug/kg	
120-36-5	Dichloroprop	17 U	34	17	8.5	ug/kg	
94-82-6	2,4-DB	17 U	34	17	8.8	ug/kg	
93-65-2	MCPP	1700 U	3400	1700	870	ug/kg	
94-74-6	MCPA	2600 U	3400	2600	1600	ug/kg	
87-86-5	Pentachlorophenol	1.7 U J	3.4	1.7	0.72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	15% ^b	46%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB8-SO-18

Lab Sample ID: FA41805-7

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 97.6

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82058.D	1	03/12/17	MV	03/10/17	OP64125	GKK2631
Run #2							

	Initial Weight	Final Volume
Run #1	14.6 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.88 U	1.8	0.88	0.55	ug/kg	
319-84-6	alpha-BHC	0.88 U	1.8	0.88	0.55	ug/kg	
319-85-7	beta-BHC ^a	0.88 UJ	1.8	0.88	0.52	ug/kg	
319-86-8	delta-BHC ^a	0.88 UJ	1.8	0.88	0.50	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.88 U	1.8	0.88	0.53	ug/kg	
5103-71-9	alpha-Chlordane ^a	0.88 UJ	1.8	0.88	0.55	ug/kg	
5103-74-2	gamma-Chlordane ^a	0.88 UJ	1.8	0.88	0.51	ug/kg	
60-57-1	Dieldrin ^a	0.88 UJ	1.8	0.88	0.49	ug/kg	
72-54-8	4,4'-DDD ^a	0.88 UJ	3.5	0.88	0.48	ug/kg	
72-55-9	4,4'-DDE ^a	0.88 UJ	3.5	0.88	0.64	ug/kg	
50-29-3	4,4'-DDT ^a	0.88 UJ	3.5	0.88	0.54	ug/kg	
72-20-8	Endrin ^a	1.8 UJ	3.5	1.8	0.89	ug/kg	
1031-07-8	Endosulfan sulfate ^a	0.88 UJ	3.5	0.88	0.46	ug/kg	
7421-93-4	Endrin aldehyde ^a	0.88 UJ	3.5	0.88	0.41	ug/kg	
53494-70-5	Endrin ketone ^a	0.88 UJ	3.5	0.88	0.55	ug/kg	
959-98-8	Endosulfan-I ^a	0.88 U	1.8	0.88	0.40	ug/kg	
33213-65-9	Endosulfan-II ^a	0.88 UJ	1.8	0.88	0.41	ug/kg	
76-44-8	Heptachlor	0.88 U	1.8	0.88	0.52	ug/kg	
1024-57-3	Heptachlor epoxide ^a	0.88 UJ	1.8	0.88	0.52	ug/kg	
72-43-5	Methoxychlor ^b	1.8 UJ	3.5	1.8	0.70	ug/kg	
8001-35-2	Toxaphene	44 U	88	44	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	110%		50-122%
2051-24-3	Decachlorobiphenyl	121%		50-133%

(a) Associated CCV outside control limits.

(b) Associated CCV and BS outside control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID:	FEIDS-SB8-SO-18	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-7	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	97.6
Method:	SW846 8082A SW846 3546		
Project:	Far East Dump Site, Fort Bliss, TX		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39656.D	1	03/10/17	NJ	03/09/17	OP64110	GMM763
Run #2							

Run #	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.9	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.6	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.6	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.9	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.9	ug/kg	
11097-69-1	Aroclor 1254	12 U	17	12	6.9	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		44-126%
2051-24-3	Decachlorobiphenyl	86%		41-145%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB8-SO-18

Lab Sample ID: FA41805-7

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 97.6

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4720	36	8.9	1.5	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Antimony ^a	0.093 J	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Arsenic ^a	2.2	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Barium ^a	48.2	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Beryllium ^a	0.35 J	0.36	0.18	0.038	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cadmium ^a	0.042 J	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Calcium	9630	180	89	13	mg/kg	50	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Chromium ^a	5.7	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cobalt ^a	1.9	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Copper ^a	2.6	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Iron ^a	6010	36	8.9	2.8	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Lead ^a	4.0	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Magnesium ^a	1500	36	18	1.8	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Manganese ^a	69.5	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Mercury	0.014 J	0.040	0.016	0.0040	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ⁴
Nickel ^a	4.2	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Potassium ^a	1010	36	18	2.3	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Selenium ^a	2.1	0.36	0.18	0.064	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Silver ^a	0.18 U	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Sodium ^a	38.6	36	18	1.7	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Thallium ^a	0.053 J	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Vanadium ^a	10.4	0.36	0.18	0.036	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Zinc ^a	14.6 J	0.36	0.18	0.10	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result ≥ DL (MDL) but < LOQ

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB9-SO-19

Lab Sample ID: FA41805-8

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 97.8

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y33941.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

Run #	Initial Weight	Final Volume
Run #1	6.72 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	19 U J	37	19	7.4	ug/kg	
71-43-2	Benzene	1.5 U	3.7	1.5	0.91	ug/kg	
108-86-1	Bromobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
74-97-5	Bromochloromethane	1.5 U	3.7	1.5	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.5 U	3.7	1.5	0.74	ug/kg	
75-25-2	Bromoform	1.5 U	3.7	1.5	0.74	ug/kg	
78-93-3	2-Butanone (MEK)	11 U	19	11	5.4	ug/kg	
104-51-8	n-Butylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
135-98-8	sec-Butylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
98-06-6	tert-Butylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
75-15-0	Carbon Disulfide	1.5 U	3.7	1.5	0.74	ug/kg	
56-23-5	Carbon Tetrachloride	1.5 U	3.7	1.5	0.76	ug/kg	
108-90-7	Chlorobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
75-00-3	Chloroethane	2.6 U	3.7	2.6	1.5	ug/kg	
67-66-3	Chloroform	1.5 U	3.7	1.5	0.99	ug/kg	
95-49-8	o-Chlorotoluene	1.5 U	3.7	1.5	0.74	ug/kg	
106-43-4	p-Chlorotoluene	1.5 U	3.7	1.5	0.74	ug/kg	
124-48-1	Dibromochloromethane	1.5 U	3.7	1.5	0.74	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.6 U	3.7	2.6	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.5 U	3.7	1.5	0.74	ug/kg	
75-71-8	Dichlorodifluoromethane	2.6 U	3.7	2.6	1.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.5 U	3.7	1.5	0.74	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.5 U	3.7	1.5	0.86	ug/kg	
75-34-3	1,1-Dichloroethane	1.5 U	3.7	1.5	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
75-35-4	1,1-Dichloroethylene	1.5 U	3.7	1.5	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.5 U	3.7	1.5	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.5 U	3.7	1.5	0.74	ug/kg	
78-87-5	1,2-Dichloropropane	1.5 U	3.7	1.5	0.74	ug/kg	
142-28-9	1,3-Dichloropropane	1.5 U	3.7	1.5	0.74	ug/kg	
594-20-7	2,2-Dichloropropane	1.5 U	3.7	1.5	0.74	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FEIDS-SB9-SO-19

Lab Sample ID: FA41805-8

Matrix: SO - Soil

Method: SW846 8260B

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 97.8

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.5 U J	3.7	1.5	0.76	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.5 U	3.7	1.5	0.74	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.5 U	3.7	1.5	0.74	ug/kg	
100-41-4	Ethylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
87-68-3	Hexachlorobutadiene	1.5 U	3.7	1.5	0.96	ug/kg	
591-78-6	2-Hexanone	11 U	19	11	5.6	ug/kg	
98-82-8	Isopropylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
99-87-6	p-Isopropyltoluene	1.5 U	3.7	1.5	0.74	ug/kg	
74-83-9	Methyl Bromide	2.6 U	3.7	2.6	1.5	ug/kg	
74-87-3	Methyl Chloride	2.6 U	3.7	2.6	1.5	ug/kg	
74-95-3	Methylene Bromide	1.5 U	3.7	1.5	0.74	ug/kg	
75-09-2	Methylene Chloride	3.7 U	7.4	3.7	3.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	11 U	19	11	5.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.5 U	3.7	1.5	0.74	ug/kg	
91-20-3	Naphthalene	2.6 U	3.7	2.6	1.5	ug/kg	
103-65-1	n-Propylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
100-42-5	Styrene	1.5 U	3.7	1.5	0.74	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.5 U	3.7	1.5	0.77	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
127-18-4	Tetrachloroethylene	1.5 U	3.7	1.5	0.95	ug/kg	
108-88-3	Toluene	1.5 U	3.7	1.5	0.74	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.6 U	3.7	2.6	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.6 U	3.7	2.6	0.74	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.5 U	3.7	1.5	0.74	ug/kg	
79-01-6	Trichloroethylene	1.5 U	3.7	1.5	0.74	ug/kg	
75-69-4	Trichlorofluoromethane	2.6 U	3.7	2.6	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.6 U	3.7	2.6	0.93	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.5 U	3.7	1.5	0.74	ug/kg	
108-05-4	Vinyl Acetate	15 U	19	15	12	ug/kg	
75-01-4	Vinyl Chloride	1.5 U	3.7	1.5	0.74	ug/kg	
	m,p-Xylene	3.0 U	7.4	3.0	0.82	ug/kg	
95-47-6	o-Xylene	1.5 U	3.7	1.5	0.74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		75-124%
17060-07-0	1,2-Dichloroethane-D4	112%		72-135%
2037-26-5	Toluene-D8	103%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB9-SO-19

Lab Sample ID: FA41805-8

Matrix: SO - Soil

Method: SW846 8260B

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 97.8

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected

LOD = Limit of Detection

LOQ = Limit of Quantitation

DL = Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB9-SO-19

Lab Sample ID: FA41805-8

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 97.8

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052941.D	1	03/16/17	NG	03/10/17	OP64127	SX2243
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	340 U	840	340	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	34 U	170	34	19	ug/kg	
95-57-8	2-Chlorophenol	34 U	170	34	21	ug/kg	
120-83-2	2,4-Dichlorophenol	34 U	170	34	19	ug/kg	
105-67-9	2,4-Dimethylphenol	67 U	170	67	45	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	840	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	340	130	67	ug/kg	
95-48-7	2-Methylphenol	34 U	170	34	20	ug/kg	
	3&4-Methylphenol	67 U	170	67	28	ug/kg	
88-75-5	2-Nitrophenol	34 U	170	34	18	ug/kg	
100-02-7	4-Nitrophenol	340 U	840	340	170	ug/kg	
87-86-5	Pentachlorophenol	340 U	840	340	170	ug/kg	
108-95-2	Phenol	34 U	170	34	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	34 U	170	34	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	34 U	170	34	19	ug/kg	
83-32-9	Acenaphthene	34 U	170	34	18	ug/kg	
208-96-8	Acenaphthylene	34 U	170	34	17	ug/kg	
62-53-3	Aniline	67 U	170	67	36	ug/kg	
120-12-7	Anthracene	34 U	170	34	19	ug/kg	
92-87-5	Benzidine	840 U	1700	840	340	ug/kg	
56-55-3	Benzo(a)anthracene	34 U	170	34	17	ug/kg	
50-32-8	Benzo(a)pyrene	34 U	170	34	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	34 U	170	34	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	34 U	170	34	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	34 U	170	34	22	ug/kg	
100-51-6	Benzyl Alcohol	34 U	170	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	34 U	170	34	17	ug/kg	
85-68-7	Butyl benzyl phthalate	67 U	170	67	34	ug/kg	
86-74-8	Carbazole	34 U	170	34	23	ug/kg	
106-47-8	4-Chloroaniline	67 U	170	67	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	34 U	170	34	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	34 U	170	34	19	ug/kg	

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB9-SO-19	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-8	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	97.8
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	34 U	170	34	21	ug/kg	
91-58-7	2-Chloronaphthalene	34 U	170	34	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	34 U	170	34	17	ug/kg	
218-01-9	Chrysene	34 U	170	34	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	34 U	170	34	21	ug/kg	
132-64-9	Dibenzofuran	34 U	170	34	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	67 U	170	67	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	67 U	170	67	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	67 U	170	67	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	67 U	170	67	40	ug/kg	
84-66-2	Diethyl Phthalate	120 U	340	120	34	ug/kg	
131-11-3	Dimethyl Phthalate	67 U	170	67	34	ug/kg	
117-84-0	Di-n-octyl Phthalate	67 U	170	67	34	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	340	120	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	34 U	170	34	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	34 U	170	34	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	34 U	170	34	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	340	120	34	ug/kg	
206-44-0	Fluoranthene	34 U	170	34	17	ug/kg	
86-73-7	Fluorene	34 U	170	34	18	ug/kg	
118-74-1	Hexachlorobenzene	34 U	170	34	17	ug/kg	
87-68-3	Hexachlorobutadiene	67 U	170	67	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	67 U	170	67	34	ug/kg	
67-72-1	Hexachloroethane	67 U	170	67	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	34 U	170	34	20	ug/kg	
78-59-1	Isophorone	34 U	170	34	17	ug/kg	
90-12-0	1-Methylnaphthalene	34 U	170	34	17	ug/kg	
91-57-6	2-Methylnaphthalene	34 U	170	34	17	ug/kg	
91-20-3	Naphthalene	34 U	170	34	17	ug/kg	
88-74-4	2-Nitroaniline	67 U	170	67	39	ug/kg	
99-09-2	3-Nitroaniline	67 U	170	67	20	ug/kg	
100-01-6	4-Nitroaniline	67 U	170	67	48	ug/kg	
98-95-3	Nitrobenzene	34 U	170	34	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	67 U	170	67	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	34 U	170	34	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	67 U	170	67	18	ug/kg	
85-01-8	Phenanthrene	34 U	170	34	17	ug/kg	
129-00-0	Pyrene	34 U	170	34	19	ug/kg	
110-86-1	Pyridine ^a	120 U J	340	120	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	34 U	170	34	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SB9-SO-19	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-8	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	97.8
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	80%		40-102%
4165-62-2	Phenol-d5	122% ^b		41-100%
118-79-6	2,4,6-Tribromophenol	72%		42-108%
4165-60-0	Nitrobenzene-d5	80%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	71%		45-119%

(a) Associated CCV outside control limits.

(b) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS

103 of 3834
ACCUTEST
FA41805

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB9-SO-19

Lab Sample ID: FA41805-8

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 97.8

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053872.D	I	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053985.D	I	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2	15.0 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	34	17	8.7	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.4	1.7	0.96	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.4	1.7	0.88	ug/kg	
1918-00-9	Dicamba	1.7 U	3.4	1.7	0.80	ug/kg	
88-85-7	Dinoseb	34 U	85	34	17	ug/kg	
75-99-0	Dalapon	68 U	170	68	34	ug/kg	
120-36-5	Dichloroprop	17 U	34	17	8.5	ug/kg	
94-82-6	2,4-DB	17 U	34	17	8.8	ug/kg	
93-65-2	MCPP	1700 U	3400	1700	870	ug/kg	
94-74-6	MCPA	2600 U	3400	2600	1600	ug/kg	
87-86-5	Pentachlorophenol	1.7 U V	3.4	1.7	0.72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	9% ^b	58%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB9-SO-19

Lab Sample ID: FA41805-8

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 97.8

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82059.D	1	03/12/17	MV	03/10/17	OP64125	GKK2631
Run #2							

	Initial Weight	Final Volume
Run #1	14.6 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.88 U	1.8	0.88	0.55	ug/kg	
319-84-6	alpha-BHC	0.88 U	1.8	0.88	0.55	ug/kg	
319-85-7	beta-BHC ^a	0.88 U J	1.8	0.88	0.51	ug/kg	
319-86-8	delta-BHC ^a	0.88 U J	1.8	0.88	0.50	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.88 U	1.8	0.88	0.53	ug/kg	
5103-71-9	alpha-Chlordane ^a	0.88 U J	1.8	0.88	0.55	ug/kg	
5103-74-2	gamma-Chlordane ^a	0.88 U J	1.8	0.88	0.50	ug/kg	
60-57-1	Dieldrin ^a	0.88 U J	1.8	0.88	0.49	ug/kg	
72-54-8	4,4'-DDD ^a	0.88 U J	3.5	0.88	0.48	ug/kg	
72-55-9	4,4'-DDE ^a	0.88 U J	3.5	0.88	0.64	ug/kg	
50-29-3	4,4'-DDT ^a	0.88 U	3.5	0.88	0.54	ug/kg	
72-20-8	Endrin ^a	1.8 U	3.5	1.8	0.89	ug/kg	
1031-07-8	Endosulfan sulfate ^a	0.88 U	3.5	0.88	0.46	ug/kg	
7421-93-4	Endrin aldehyde ^a	0.88 U	3.5	0.88	0.41	ug/kg	
53494-70-5	Endrin ketone ^a	0.88 U	3.5	0.88	0.55	ug/kg	
959-98-8	Endosulfan-I ^a	0.88 U	1.8	0.88	0.40	ug/kg	
33213-65-9	Endosulfan-II ^a	0.88 U J	1.8	0.88	0.41	ug/kg	
76-44-8	Heptachlor	0.88 U	1.8	0.88	0.52	ug/kg	
1024-57-3	Heptachlor epoxide ^a	0.88 U J	1.8	0.88	0.51	ug/kg	
72-43-5	Methoxychlor ^b	1.8 U J	3.5	1.8	0.70	ug/kg	
8001-35-2	Toxaphene	44 U	88	44	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	112%		50-122%
2051-24-3	Decachlorobiphenyl	130%		50-133%

(a) Associated CCV outside control limits.

(b) Associated CCV and BS outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB9-SO-19

Lab Sample ID: FA41805-8

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3546

Percent Solids: 97.8

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39657.D	1	03/10/17	NJ	03/09/17	OP64110	GMM763
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	16	12	6.6	ug/kg	
11104-28-2	Aroclor 1221	12 U	16	12	8.2	ug/kg	
11141-16-5	Aroclor 1232	12 U	16	12	8.2	ug/kg	
53469-21-9	Aroclor 1242	12 U	16	12	6.6	ug/kg	
12672-29-6	Aroclor 1248	12 U	16	12	6.6	ug/kg	
11097-69-1	Aroclor 1254	12 U	16	12	6.6	ug/kg	
11096-82-5	Aroclor 1260	12 U	16	12	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		44-126%
2051-24-3	Decachlorobiphenyl	79%		41-145%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB9-SO-19

Lab Sample ID: FA41805-8

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 97.8

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4700	43	11	1.9	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Antimony ^a	0.097 J	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Arsenic ^a	2.1	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Barium ^a	57.2	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Beryllium ^a	0.35 J	0.43	0.22	0.047	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cadmium ^a	0.045 J	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Calcium	11400	110	54	7.8	mg/kg	25	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Chromium ^a	6.1	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cobalt ^a	2.2	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Copper ^a	2.9	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Iron ^a	6510	43	11	3.4	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Lead ^a	4.3	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Magnesium ^a	1460	43	22	2.3	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Manganese ^a	85.4	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Mercury	0.0089 J	0.039	0.016	0.0039	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ⁴
Nickel ^a	4.4	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Potassium ^a	926	43	22	2.8	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Selenium ^a	2.0	0.43	0.22	0.078	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Silver ^a	0.22 U	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Sodium ^a	32.5 J	43	22	2.1	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Thallium ^a	0.057 J	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Vanadium ^a	11.7	0.43	0.22	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Zinc ^a	16.4 J	0.43	0.22	0.13	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result >= DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB10-SO-20

Lab Sample ID: FA41805-9

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 88.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33942.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

	Initial Weight	Final Volume
Run #1	6.90 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	18 U J	36	18	7.2	ug/kg	
71-43-2	Benzene	1.4 U	3.6	1.4	0.88	ug/kg	
108-86-1	Bromobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
74-97-5	Bromochloromethane	1.4 U	3.6	1.4	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-25-2	Bromoform	1.4 U	3.6	1.4	0.72	ug/kg	
78-93-3	2-Butanone (MEK)	11 U	18	11	5.3	ug/kg	
104-51-8	n-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
135-98-8	sec-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
98-06-6	tert-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
75-15-0	Carbon Disulfide	1.4 U	3.6	1.4	0.72	ug/kg	
56-23-5	Carbon Tetrachloride	1.4 U	3.6	1.4	0.74	ug/kg	
108-90-7	Chlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
75-00-3	Chloroethane	2.5 U	3.6	2.5	1.4	ug/kg	
67-66-3	Chloroform	1.4 U	3.6	1.4	0.96	ug/kg	
95-49-8	o-Chlorotoluene	1.4 U	3.6	1.4	0.72	ug/kg	
106-43-4	p-Chlorotoluene	1.4 U	3.6	1.4	0.72	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	3.6	1.4	0.72	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.5 U	3.6	2.5	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-71-8	Dichlorodifluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.4 U	3.6	1.4	0.83	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.6	1.4	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	3.6	1.4	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	3.6	1.4	0.72	ug/kg	
142-28-9	1,3-Dichloropropane	1.4 U	3.6	1.4	0.72	ug/kg	
594-20-7	2,2-Dichloropropane	1.4 U V	3.6	1.4	0.72	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Client Sample ID: FEIDS-SB10-SO-20
 Lab Sample ID: FA41805-9
 Matrix: SO - Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 88.2

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.4 U J	3.6	1.4	0.74	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	3.6	1.4	0.72	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	3.6	1.4	0.72	ug/kg	
100-41-4	Ethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
87-68-3	Hexachlorobutadiene	1.4 U	3.6	1.4	0.93	ug/kg	
591-78-6	2-Hexanone	11 U	18	11	5.4	ug/kg	
98-82-8	Isopropylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
99-87-6	p-Isopropyltoluene	1.4 U	3.6	1.4	0.72	ug/kg	
74-83-9	Methyl Bromide	2.5 U	3.6	2.5	1.4	ug/kg	
74-87-3	Methyl Chloride	2.5 U	3.6	2.5	1.4	ug/kg	
74-95-3	Methylene Bromide	1.4 U	3.6	1.4	0.72	ug/kg	
75-09-2	Methylene Chloride	3.6 U	7.2	3.6	2.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	11 U	18	11	5.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.4 U	3.6	1.4	0.72	ug/kg	
91-20-3	Naphthalene	2.5 U	3.6	2.5	1.4	ug/kg	
103-65-1	n-Propylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
100-42-5	Styrene	1.4 U	3.6	1.4	0.72	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.4 U	3.6	1.4	0.75	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	3.6	1.4	0.93	ug/kg	
108-88-3	Toluene	1.4 U	3.6	1.4	0.72	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	3.6	2.5	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	3.6	2.5	0.72	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
79-01-6	Trichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
75-69-4	Trichlorofluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.5 U	3.6	2.5	0.91	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
108-05-4	Vinyl Acetate	14 U	18	14	12	ug/kg	
75-01-4	Vinyl Chloride	1.4 U	3.6	1.4	0.72	ug/kg	
	m,p-Xylene	2.9 U	7.2	2.9	0.80	ug/kg	
95-47-6	o-Xylene	1.4 U	3.6	1.4	0.72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	122%		75-124%
17060-07-0	1,2-Dichloroethane-D4	116%		72-135%
2037-26-5	Toluene-D8	104%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SB10-SO-20	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-9	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	88.2
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected	LOD = Limit of Detection	J = Indicates an estimated value
LOQ = Limit of Quantitation	DL = Detection Limit	B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID:	FEIDS-SB10-SO-20	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-9	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	88.2
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052859.D	I	03/14/17	NG	03/10/17	OP64127	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	380 U	940	380	190	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	38 U	190	38	21	ug/kg	
95-57-8	2-Chlorophenol	38 U	190	38	23	ug/kg	
120-83-2	2,4-Dichlorophenol	38 U	190	38	22	ug/kg	
105-67-9	2,4-Dimethylphenol	75 U	190	75	50	ug/kg	
51-28-5	2,4-Dinitrophenol	560 U	940	560	190	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	150 U	380	150	75	ug/kg	
95-48-7	2-Methylphenol	38 U	190	38	23	ug/kg	
	3&4-Methylphenol	75 U	190	75	31	ug/kg	
88-75-5	2-Nitrophenol	38 U	190	38	20	ug/kg	
100-02-7	4-Nitrophenol	380 U	940	380	190	ug/kg	
87-86-5	Pentachlorophenol	380 U	940	380	190	ug/kg	
108-95-2	Phenol	38 U	190	38	19	ug/kg	
95-95-4	2,4,5-Trichlorophenol	38 U	190	38	30	ug/kg	
88-06-2	2,4,6-Trichlorophenol	38 U	190	38	22	ug/kg	
83-32-9	Acenaphthene	38 U	190	38	20	ug/kg	
208-96-8	Acenaphthylene	38 U	190	38	19	ug/kg	
62-53-3	Aniline	75 U	190	75	40	ug/kg	
120-12-7	Anthracene	38 U	190	38	21	ug/kg	
92-87-5	Benzidine	940 U	1900	940	380	ug/kg	
56-55-3	Benzo(a)anthracene	38 U	190	38	19	ug/kg	
50-32-8	Benzo(a)pyrene	38 U	190	38	22	ug/kg	
205-99-2	Benzo(b)fluoranthene	38 U	190	38	21	ug/kg	
191-24-2	Benzo(g,h,i)perylene	38 U	190	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	38 U	190	38	25	ug/kg	
100-51-6	Benzyl Alcohol	38 U	190	38	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	38 U	190	38	19	ug/kg	
85-68-7	Butyl benzyl phthalate	75 U	190	75	38	ug/kg	
86-74-8	Carbazole	38 U	190	38	26	ug/kg	
106-47-8	4-Chloroaniline	75 U	190	75	47	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	38 U	190	38	19	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	38 U	190	38	22	ug/kg	

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FEIDS-SB10-SO-20		
Lab Sample ID:	FA41805-9	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8270D SW846 3550C	Percent Solids:	88.2
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	38 U	190	38	24	ug/kg	
91-58-7	2-Chloronaphthalene	38 U	190	38	19	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	38 U	190	38	19	ug/kg	
218-01-9	Chrysene	38 U	190	38	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	38 U	190	38	24	ug/kg	
132-64-9	Dibenzofuran	38 U	190	38	19	ug/kg	
95-50-1	1,2-Dichlorobenzene	75 U	190	75	19	ug/kg	
541-73-1	1,3-Dichlorobenzene	75 U	190	75	20	ug/kg	
106-46-7	1,4-Dichlorobenzene	75 U	190	75	25	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	75 U	190	75	45	ug/kg	
84-66-2	Diethyl Phthalate	130 U	380	130	38	ug/kg	
131-11-3	Dimethyl Phthalate	75 U	190	75	38	ug/kg	
117-84-0	Di-n-octyl Phthalate	75 U	190	75	38	ug/kg	
84-74-2	Di-n-butyl Phthalate	130 U	380	130	75	ug/kg	
121-14-2	2,4-Dinitrotoluene	38 U	190	38	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	38 U	190	38	24	ug/kg	
122-66-7	1,2-Diphenylhydrazine	38 U	190	38	19	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	130 U	380	130	38	ug/kg	
206-44-0	Fluoranthene	38 U	190	38	19	ug/kg	
86-73-7	Fluorene	38 U	190	38	20	ug/kg	
118-74-1	Hexachlorobenzene	38 U	190	38	19	ug/kg	
87-68-3	Hexachlorobutadiene	75 U	190	75	19	ug/kg	
77-47-4	Hexachlorocyclopentadiene	75 U	190	75	38	ug/kg	
67-72-1	Hexachloroethane	75 U	190	75	22	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	38 U	190	38	23	ug/kg	
78-59-1	Isophorone	38 U	190	38	19	ug/kg	
90-12-0	1-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-57-6	2-Methylnaphthalene	38 U	190	38	19	ug/kg	
91-20-3	Naphthalene	38 U	190	38	19	ug/kg	
88-74-4	2-Nitroaniline	75 U	190	75	44	ug/kg	
99-09-2	3-Nitroaniline	75 U	190	75	22	ug/kg	
100-01-6	4-Nitroaniline	75 U	190	75	54	ug/kg	
98-95-3	Nitrobenzene	38 U	190	38	19	ug/kg	
62-75-9	N-Nitrosodimethylamine	75 U	190	75	31	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	38 U	190	38	19	ug/kg	
86-30-6	N-Nitrosodiphenylamine	75 U	190	75	20	ug/kg	
85-01-8	Phenanthrene	38 U	190	38	19	ug/kg	
129-00-0	Pyrene	38 U	190	38	22	ug/kg	
110-86-1	Pyridine	130 U J	380	130	75	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	38 U	190	38	22	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SB10-SO-20	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-9	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	88.2
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	91%		40-102%
4165-62-2	Phenol-d5	141% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	89%		42-108%
4165-60-0	Nitrobenzene-d5	96%		40-105%
321-60-8	2-Fluorobiphenyl	92%		43-107%
1718-51-0	Terphenyl-d14	99%		45-119%

(a) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB10-SO-20

Lab Sample ID: FA41805-9

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 88.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053873.D	I	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053986.D	I	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2	14.5 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	19 U J	38	19	9.6	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.9 U	3.8	1.9	1.1	ug/kg	
93-76-5	2,4,5-T	1.9 U	3.8	1.9	0.97	ug/kg	
1918-00-9	Dicamba	1.9 U	3.8	1.9	0.88	ug/kg	
88-85-7	Dinoseb	38 U	94	38	19	ug/kg	
75-99-0	Dalapon	75 U	190	75	38	ug/kg	
120-36-5	Dichloroprop	19 U	38	19	9.3	ug/kg	
94-82-6	2,4-DB	19 U	38	19	9.7	ug/kg	
93-65-2	MCP	1900 U	3800	1900	960	ug/kg	
94-74-6	MCPA	2800 U	3800	2800	1800	ug/kg	
87-86-5	Pentachlorophenol	1.9 U	3.8	1.9	0.79	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^b	42%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB10-SO-20

Lab Sample ID: FA41805-9

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 88.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82129.D	1	03/15/17	MV	03/13/17	OP64153	GKK2633
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.93 U	1.9	0.93	0.59	ug/kg	
319-84-6	alpha-BHC	0.93 U	1.9	0.93	0.59	ug/kg	
319-85-7	beta-BHC	0.93 U	1.9	0.93	0.54	ug/kg	
319-86-8	delta-BHC	0.93 U	1.9	0.93	0.53	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.93 U	1.9	0.93	0.56	ug/kg	
5103-71-9	alpha-Chlordane	0.93 U	1.9	0.93	0.58	ug/kg	
5103-74-2	gamma-Chlordane	0.93 U	1.9	0.93	0.53	ug/kg	
60-57-1	Dieldrin	0.93 U	1.9	0.93	0.52	ug/kg	
72-54-8	4,4'-DDD	0.93 U	3.7	0.93	0.51	ug/kg	
72-55-9	4,4'-DDE	0.93 U	3.7	0.93	0.67	ug/kg	
50-29-3	4,4'-DDT	0.93 U	3.7	0.93	0.57	ug/kg	
72-20-8	Endrin	1.9 U	3.7	1.9	0.94	ug/kg	
1031-07-8	Endosulfan sulfate	0.93 U	3.7	0.93	0.49	ug/kg	
7421-93-4	Endrin aldehyde	0.93 U	3.7	0.93	0.43	ug/kg	
53494-70-5	Endrin ketone	0.93 U	3.7	0.93	0.58	ug/kg	
959-98-8	Endosulfan-I	0.93 U	1.9	0.93	0.43	ug/kg	
33213-65-9	Endosulfan-II ^a	0.93 U	1.9	0.93	0.44	ug/kg	
76-44-8	Heptachlor	0.93 U	1.9	0.93	0.55	ug/kg	
1024-57-3	Heptachlor epoxide	0.93 U	1.9	0.93	0.54	ug/kg	
72-43-5	Methoxychlor	1.9 U	3.7	1.9	0.74	ug/kg	
8001-35-2	Toxaphene	46 U	93	46	28	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		50-122%
2051-24-3	Decachlorobiphenyl	87%		50-133%

(a) Associated MS/MSD outside of control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB10-SO-20

Lab Sample ID: FA41805-9

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3546

Percent Solids: 88.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39658.D	1	03/10/17	NJ	03/09/17	OP64110	GMM763
Run #2							

	Initial Weight	Final Volume
Run #1	14.9 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	13 U	19	13	7.6	ug/kg	
11104-28-2	Aroclor 1221	13 U	19	13	9.5	ug/kg	
11141-16-5	Aroclor 1232	13 U	19	13	9.5	ug/kg	
53469-21-9	Aroclor 1242	13 U	19	13	7.6	ug/kg	
12672-29-6	Aroclor 1248	13 U	19	13	7.6	ug/kg	
11097-69-1	Aroclor 1254	13 U	19	13	7.6	ug/kg	
11096-82-5	Aroclor 1260	13 U	19	13	7.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	85%		44-126%
2051-24-3	Decachlorobiphenyl	89%		41-145%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB10-SO-20

Lab Sample ID: FA41805-9

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 88.2

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	7210	46	12	2.0	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Antimony ^a	0.13 J	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Arsenic ^a	3.5	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Barium	291	4.6	2.3	0.46	mg/kg	100	03/21/17	03/23/17 DM	SW846 6020A	³ SW846 3050B ⁵
Beryllium ^a	0.31 J	0.46	0.23	0.050	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Cadmium ^a	0.23 U	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Calcium	77100	460	230	33	mg/kg	100	03/21/17	03/23/17 DM	SW846 6020A	³ SW846 3050B ⁵
Chromium ^a	6.7	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Cobalt ^a	2.5	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Copper ^a	3.5	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Iron ^a	6500	46	12	3.6	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Lead ^a	3.7	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Magnesium	15300	460	230	24	mg/kg	100	03/21/17	03/23/17 DM	SW846 6020A	³ SW846 3050B ⁵
Manganese ^a	71.7	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Mercury	0.012 J	0.045	0.018	0.0045	mg/kg	1	03/15/17	03/15/17 JL	SW846 7471B	¹ SW846 7471B ⁴
Nickel ^a	5.9	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Potassium ^a	1200	46	23	3.0	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Selenium ^a	2.1	0.46	0.23	0.083	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Silver ^a	0.23 U	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Sodium ^a	110	46	23	2.2	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Thallium ^a	0.062 J	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Vanadium ^a	19.9	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Zinc ^a	15.2 J	0.46	0.23	0.13	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB11-SO-21

Lab Sample ID: FA41805-10

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 92.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33943.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

	Initial Weight	Final Volume
Run #1	5.74 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	22 U ^J	4.4	2.2	8.7	ug/kg	
71-43-2	Benzene	1.7 U	4.4	1.7	1.1	ug/kg	
108-86-1	Bromobenzene	1.7 U	4.4	1.7	0.87	ug/kg	
74-97-5	Bromochloromethane	1.7 U	4.4	1.7	1.3	ug/kg	
75-27-4	Bromodichloromethane	1.7 U	4.4	1.7	0.87	ug/kg	
75-25-2	Bromoform	1.7 U	4.4	1.7	0.87	ug/kg	
78-93-3	2-Butanone (MEK)	13 U	22	13	6.3	ug/kg	
104-51-8	n-Butylbenzene	1.7 U	4.4	1.7	0.87	ug/kg	
135-98-8	sec-Butylbenzene	1.7 U	4.4	1.7	0.87	ug/kg	
98-06-6	tert-Butylbenzene	1.7 U	4.4	1.7	0.87	ug/kg	
75-15-0	Carbon Disulfide	1.7 U	4.4	1.7	0.87	ug/kg	
56-23-5	Carbon Tetrachloride	1.7 U	4.4	1.7	0.89	ug/kg	
108-90-7	Chlorobenzene	1.7 U	4.4	1.7	0.87	ug/kg	
75-00-3	Chloroethane	3.0 U	4.4	3.0	1.7	ug/kg	
67-66-3	Chloroform	1.7 U	4.4	1.7	1.2	ug/kg	
95-49-8	o-Chlorotoluene	1.7 U	4.4	1.7	0.87	ug/kg	
106-43-4	p-Chlorotoluene	1.7 U	4.4	1.7	0.87	ug/kg	
124-48-1	Dibromochloromethane	1.7 U	4.4	1.7	0.87	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	3.0 U	4.4	3.0	1.7	ug/kg	
106-93-4	1,2-Dibromoethane	1.7 U	4.4	1.7	0.87	ug/kg	
75-71-8	Dichlorodifluoromethane	3.0 U	4.4	3.0	1.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.7 U	4.4	1.7	0.87	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.7 U	4.4	1.7	0.87	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.7 U	4.4	1.7	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	1.7 U	4.4	1.7	1.5	ug/kg	
107-06-2	1,2-Dichloroethane	1.7 U	4.4	1.7	0.87	ug/kg	
75-35-4	1,1-Dichloroethylene	1.7 U	4.4	1.7	0.87	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.7 U	4.4	1.7	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.7 U	4.4	1.7	0.87	ug/kg	
78-87-5	1,2-Dichloropropane	1.7 U	4.4	1.7	0.87	ug/kg	
142-28-9	1,3-Dichloropropane	1.7 U	4.4	1.7	0.87	ug/kg	
594-20-7	2,2-Dichloropropane	1.7 U ^V	4.4	1.7	0.87	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB11-SO-21		
Lab Sample ID:	FA41805-10	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8260B	Percent Solids:	92.0
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.7 U ^J	4.4	1.7	0.89	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.7 U	4.4	1.7	0.87	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.7 U	4.4	1.7	0.87	ug/kg	
100-41-4	Ethylbenzene	1.7 U	4.4	1.7	0.87	ug/kg	
87-68-3	Hexachlorobutadiene	1.7 U	4.4	1.7	1.1	ug/kg	
591-78-6	2-Hexanone	13 U	22	13	6.5	ug/kg	
98-82-8	Isopropylbenzene	1.7 U	4.4	1.7	0.87	ug/kg	
99-87-6	p-Isopropyltoluene	1.7 U	4.4	1.7	0.87	ug/kg	
74-83-9	Methyl Bromide	3.0 U	4.4	3.0	1.7	ug/kg	
74-87-3	Methyl Chloride	3.0 U	4.4	3.0	1.7	ug/kg	
74-95-3	Methylene Bromide	1.7 U	4.4	1.7	0.87	ug/kg	
75-09-2	Methylene Chloride	4.4 U	8.7	4.4	3.5	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	13 U	22	13	6.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.7 U	4.4	1.7	0.87	ug/kg	
91-20-3	Naphthalene	3.0 U	4.4	3.0	1.7	ug/kg	
103-65-1	n-Propylbenzene	1.7 U	4.4	1.7	0.87	ug/kg	
100-42-5	Styrene	1.7 U	4.4	1.7	0.87	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.7 U	4.4	1.7	0.90	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.7 U	4.4	1.7	0.87	ug/kg	
127-18-4	Tetrachloroethylene	1.7 U	4.4	1.7	1.1	ug/kg	
108-88-3	Toluene	1.7 U	4.4	1.7	0.87	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	3.0 U	4.4	3.0	1.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	3.0 U	4.4	3.0	0.87	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.7 U	4.4	1.7	0.87	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.7 U	4.4	1.7	0.87	ug/kg	
79-01-6	Trichloroethylene	1.7 U	4.4	1.7	0.87	ug/kg	
75-69-4	Trichlorofluoromethane	3.0 U	4.4	3.0	1.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	3.0 U	4.4	3.0	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.7 U	4.4	1.7	0.87	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.7 U	4.4	1.7	0.87	ug/kg	
108-05-4	Vinyl Acetate	17 U	22	17	14	ug/kg	
75-01-4	Vinyl Chloride	1.7 U	4.4	1.7	0.87	ug/kg	
	m,p-Xylene	3.5 U	8.7	3.5	0.96	ug/kg	
95-47-6	o-Xylene	1.7 U ^J	4.4	1.7	0.87	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		75-124%
17060-07-0	1,2-Dichloroethane-D4	122%		72-135%
2037-26-5	Toluene-D8	100%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB11-SO-21

Lab Sample ID: FA41805-10

Matrix: SO - Soil

Method: SW846 8260B

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 92.0

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB11-SO-21

Lab Sample ID: FA41805-10

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 92.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052860.D	1	03/14/17	NG	03/10/17	OP64127	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	360 U	910	360	180	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	36 U	180	36	21	ug/kg	
95-57-8	2-Chlorophenol	36 U	180	36	22	ug/kg	
120-83-2	2,4-Dichlorophenol	36 U	180	36	21	ug/kg	
105-67-9	2,4-Dimethylphenol	73 U	180	73	48	ug/kg	
51-28-5	2,4-Dinitrophenol	550 U	910	550	180	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	150 U	360	150	73	ug/kg	
95-48-7	2-Methylphenol	36 U	180	36	22	ug/kg	
	3&4-Methylphenol	73 U	180	73	30	ug/kg	
88-75-5	2-Nitrophenol	36 U	180	36	20	ug/kg	
100-02-7	4-Nitrophenol	360 U	910	360	180	ug/kg	
87-86-5	Pentachlorophenol	360 U	910	360	180	ug/kg	
108-95-2	Phenol	36 U	180	36	18	ug/kg	
95-95-4	2,4,5-Trichlorophenol	36 U	180	36	29	ug/kg	
88-06-2	2,4,6-Trichlorophenol	36 U	180	36	21	ug/kg	
83-32-9	Acenaphthene	36 U	180	36	19	ug/kg	
208-96-8	Acenaphthylene	36 U	180	36	18	ug/kg	
62-53-3	Aniline	73 U	180	73	39	ug/kg	
120-12-7	Anthracene	36 U	180	36	20	ug/kg	
92-87-5	Benzidine	910 U	1800	910	360	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	180	36	18	ug/kg	
50-32-8	Benzo(a)pyrene	36 U	180	36	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	36 U	180	36	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	36 U	180	36	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	36 U	180	36	24	ug/kg	
100-51-6	Benzyl Alcohol	36 U	180	36	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	36 U	180	36	19	ug/kg	
85-68-7	Butyl benzyl phthalate	73 U	180	73	36	ug/kg	
86-74-8	Carbazole	36 U	180	36	25	ug/kg	
106-47-8	4-Chloroaniline	73 U	180	73	46	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	36 U	180	36	18	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	36 U	180	36	21	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SG

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB11-SO-21		
Lab Sample ID:	FA41805-10	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8270D SW846 3550C	Percent Solids:	92.0
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	36 U	180	36	23	ug/kg	
91-58-7	2-Chloronaphthalene	36 U	180	36	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	36 U	180	36	18	ug/kg	
218-01-9	Chrysene	36 U	180	36	19	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	36 U	180	36	23	ug/kg	
132-64-9	Dibenzofuran	36 U	180	36	18	ug/kg	
95-50-1	1,2-Dichlorobenzene	73 U	180	73	18	ug/kg	
541-73-1	1,3-Dichlorobenzene	73 U	180	73	20	ug/kg	
106-46-7	1,4-Dichlorobenzene	73 U	180	73	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	73 U	180	73	43	ug/kg	
84-66-2	Diethyl Phthalate	130 U	360	130	36	ug/kg	
131-11-3	Dimethyl Phthalate	73 U	180	73	36	ug/kg	
117-84-0	Di-n-octyl Phthalate	73 U	180	73	36	ug/kg	
84-74-2	Di-n-butyl Phthalate	130 U	360	130	73	ug/kg	
121-14-2	2,4-Dinitrotoluene	36 U	180	36	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	36 U	180	36	23	ug/kg	
122-66-7	1,2-Diphenylhydrazine	36 U	180	36	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	130 U	360	130	36	ug/kg	
206-44-0	Fluoranthene	36 U	180	36	18	ug/kg	
86-73-7	Fluorene	36 U	180	36	19	ug/kg	
118-74-1	Hexachlorobenzene	36 U	180	36	19	ug/kg	
87-68-3	Hexachlorobutadiene	73 U	180	73	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	73 U	180	73	36	ug/kg	
67-72-1	Hexachloroethane	73 U	180	73	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	36 U	180	36	22	ug/kg	
78-59-1	Isophorone	36 U	180	36	18	ug/kg	
90-12-0	1-Methylnaphthalene	36 U	180	36	18	ug/kg	
91-57-6	2-Methylnaphthalene	36 U	180	36	18	ug/kg	
91-20-3	Naphthalene	36 U	180	36	18	ug/kg	
88-74-4	2-Nitroaniline	73 U	180	73	42	ug/kg	
99-09-2	3-Nitroaniline	73 U	180	73	21	ug/kg	
100-01-6	4-Nitroaniline	73 U	180	73	52	ug/kg	
98-95-3	Nitrobenzene	36 U	180	36	18	ug/kg	
62-75-9	N-Nitrosodimethylamine	73 U	180	73	30	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	36 U	180	36	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	73 U	180	73	20	ug/kg	
85-01-8	Phenanthrene	36 U	180	36	18	ug/kg	
129-00-0	Pyrene	36 U	180	36	21	ug/kg	
110-86-1	Pyridine	130 U J	360	130	73	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	36 U	180	36	21	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB11-SO-21
Lab Sample ID: FA41805-10
Matrix: SO - Soil
Method: SW846 8270D SW846 3550C
Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
Date Received: 03/07/17
Percent Solids: 92.0

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	82%		40-102%
4165-62-2	Phenol-d5	128% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	83%		42-108%
4165-60-0	Nitrobenzene-d5	87%		40-105%
321-60-8	2-Fluorobiphenyl	81%		43-107%
1718-51-0	Terphenyl-d14	90%		45-119%

(a) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB11-SO-21

Lab Sample ID: FA41805-10

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 92.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053874.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053987.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2	15.0 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	18 U J	36	18	9.2	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.8 U	3.6	1.8	1.0	ug/kg	
93-76-5	2,4,5-T	1.8 U	3.6	1.8	0.93	ug/kg	
1918-00-9	Dicamba	1.8 U	3.6	1.8	0.84	ug/kg	
88-85-7	Dinoseb	36 U	90	36	18	ug/kg	
75-99-0	Dalapon	72 U	180	72	36	ug/kg	
120-36-5	Dichloroprop	18 U	36	18	8.9	ug/kg	
94-82-6	2,4-DB	18 U	36	18	9.3	ug/kg	
93-65-2	MCP	1800 U	3600	1800	920	ug/kg	
94-74-6	MCPA	2700 U	3600	2700	1700	ug/kg	
87-86-5	Pentachlorophenol	1.8 U	3.6	1.8	0.76	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^b	42%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB11-SO-21

Lab Sample ID: FA41805-10

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 92.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82132.D	1	03/15/17	MV	03/13/17	OP64153	GKK2633
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.91 U	1.8	0.91	0.57	ug/kg	
319-84-6	alpha-BHC	0.91 U	1.8	0.91	0.57	ug/kg	
319-85-7	beta-BHC	0.91 U	1.8	0.91	0.53	ug/kg	
319-86-8	delta-BHC	0.91 U	1.8	0.91	0.51	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.91 U	1.8	0.91	0.54	ug/kg	
5103-71-9	alpha-Chlordane	0.91 U	1.8	0.91	0.57	ug/kg	
5103-74-2	gamma-Chlordane	0.91 U	1.8	0.91	0.52	ug/kg	
60-57-1	Dieldrin	0.91 U	1.8	0.91	0.51	ug/kg	
72-54-8	4,4'-DDD	0.91 U	3.6	0.91	0.50	ug/kg	
72-55-9	4,4'-DDE	0.91 U	3.6	0.91	0.66	ug/kg	
50-29-3	4,4'-DDT	0.91 U	3.6	0.91	0.55	ug/kg	
72-20-8	Endrin	1.8 U	3.6	1.8	0.92	ug/kg	
1031-07-8	Endosulfan sulfate	0.91 U	3.6	0.91	0.48	ug/kg	
7421-93-4	Endrin aldehyde	0.91 U	3.6	0.91	0.42	ug/kg	
53494-70-5	Endrin ketone	0.91 U	3.6	0.91	0.57	ug/kg	
959-98-8	Endosulfan-I	0.91 U	1.8	0.91	0.42	ug/kg	
33213-65-9	Endosulfan-II	0.91 U	1.8	0.91	0.43	ug/kg	
76-44-8	Heptachlor	0.91 U	1.8	0.91	0.54	ug/kg	
1024-57-3	Heptachlor epoxide	0.91 U	1.8	0.91	0.53	ug/kg	
72-43-5	Methoxychlor	1.8 U	3.6	1.8	0.72	ug/kg	
8001-35-2	Toxaphene	45 U	91	45	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		50-122%
2051-24-3	Decachlorobiphenyl	104%		50-133%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB11-SO-21

Lab Sample ID: FA41805-10

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3546

Percent Solids: 92.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39642.D	I	03/10/17	NJ	03/09/17	OP64110	GMM763
Run #2							

	Initial Weight	Final Volume
Run #1	14.7 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	13 U	18	13	7.4	ug/kg	
11104-28-2	Aroclor 1221	13 U	18	13	9.2	ug/kg	
11141-16-5	Aroclor 1232	13 U	18	13	9.2	ug/kg	
53469-21-9	Aroclor 1242	13 U	18	13	7.4	ug/kg	
12672-29-6	Aroclor 1248	13 U	18	13	7.4	ug/kg	
11097-69-1	Aroclor 1254	13 U	18	13	7.4	ug/kg	
11096-82-5	Aroclor 1260	13 U	18	13	7.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		44-126%
2051-24-3	Decachlorobiphenyl	78%		41-145%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB11-SO-21

Lab Sample ID: FA41805-10

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 92.0

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	6970	44	11	1.9	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Antimony ^a	0.074 J	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Arsenic ^a	2.8	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Barium	117	8.8	4.4	0.88	mg/kg	200	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Beryllium ^a	0.39 J	0.44	0.22	0.048	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cadmium ^a	0.22 U	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Calcium	124000	880	440	64	mg/kg	200	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Chromium ^a	5.6	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cobalt ^a	2.1	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Copper ^a	1.2	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Iron ^a	5170	44	11	3.5	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Lead ^a	3.3	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Magnesium ^a	7140	44	22	2.3	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Manganese ^a	40.5	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Mercury	0.0065 J	0.042	0.017	0.0042	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ⁴
Nickel ^a	5.6	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Potassium ^a	761	44	22	2.9	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Selenium ^a	1.9	0.44	0.22	0.080	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Silver ^a	0.22 U	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Sodium ^a	638	44	22	2.1	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Thallium ^a	0.052 J	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Vanadium ^a	15.2	0.44	0.22	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Zinc ^a	11.2 J	0.44	0.22	0.13	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS11-SO-22

Lab Sample ID: FA41805-11

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 97.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33944.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

	Initial Weight	Final Volume
Run #1	7.19 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	17 U J	35	17	7.0	ug/kg	
71-43-2	Benzene	1.4 U	3.5	1.4	0.85	ug/kg	
108-86-1	Bromobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
74-97-5	Bromochloromethane	1.4 U	3.5	1.4	1.0	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	3.5	1.4	0.70	ug/kg	
75-25-2	Bromoform	1.4 U	3.5	1.4	0.70	ug/kg	
78-93-3	2-Butanone (MEK)	10 U	17	10	5.1	ug/kg	
104-51-8	n-Butylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
135-98-8	sec-Butylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
98-06-6	tert-Butylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
75-15-0	Carbon Disulfide	1.4 U	3.5	1.4	0.70	ug/kg	
56-23-5	Carbon Tetrachloride	1.4 U	3.5	1.4	0.71	ug/kg	
108-90-7	Chlorobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
75-00-3	Chloroethane	2.4 U	3.5	2.4	1.4	ug/kg	
67-66-3	Chloroform	1.4 U	3.5	1.4	0.92	ug/kg	
95-49-8	o-Chlorotoluene	1.4 U	3.5	1.4	0.70	ug/kg	
106-43-4	p-Chlorotoluene	1.4 U	3.5	1.4	0.70	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	3.5	1.4	0.70	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.4 U	3.5	2.4	1.3	ug/kg	
106-93-4	1,2-Dibromoethane	1.4 U	3.5	1.4	0.70	ug/kg	
75-71-8	Dichlorodifluoromethane	2.4 U	3.5	2.4	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.4 U	3.5	1.4	0.70	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.4 U	3.5	1.4	0.80	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.5	1.4	1.2	ug/kg	
107-06-2	1,2-Dichloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	3.5	1.4	0.70	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	3.5	1.4	0.96	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	3.5	1.4	0.70	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	3.5	1.4	0.70	ug/kg	
142-28-9	1,3-Dichloropropane	1.4 U	3.5	1.4	0.70	ug/kg	
594-20-7	2,2-Dichloropropane	1.4 U	3.5	1.4	0.70	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SS11-SO-22	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-11	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	97.2
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.4 U J	3.5	1.4	0.71	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	3.5	1.4	0.70	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	3.5	1.4	0.70	ug/kg	
100-41-4	Ethylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
87-68-3	Hexachlorobutadiene	1.4 U	3.5	1.4	0.90	ug/kg	
591-78-6	2-Hexanone	10 U	17	10	5.2	ug/kg	
98-82-8	Isopropylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
99-87-6	p-Isopropyltoluene	1.4 U	3.5	1.4	0.70	ug/kg	
74-83-9	Methyl Bromide	2.4 U	3.5	2.4	1.4	ug/kg	
74-87-3	Methyl Chloride	2.4 U	3.5	2.4	1.4	ug/kg	
74-95-3	Methylene Bromide	1.4 U	3.5	1.4	0.70	ug/kg	
75-09-2	Methylene Chloride	3.5 U	7.0	3.5	2.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	17	10	5.2	ug/kg	
1634-04-4	Methyl Teri Butyl Ether	1.4 U	3.5	1.4	0.70	ug/kg	
91-20-3	Naphthalene	2.4 U	3.5	2.4	1.4	ug/kg	
103-65-1	n-Propylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
100-42-5	Styrene	1.4 U	3.5	1.4	0.70	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.4 U	3.5	1.4	0.72	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	3.5	1.4	0.89	ug/kg	
108-88-3	Toluene	1.4 U	3.5	1.4	0.70	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.4 U	3.5	2.4	0.97	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.4 U	3.5	2.4	0.70	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	3.5	1.4	0.70	ug/kg	
79-01-6	Trichloroethylene	1.4 U	3.5	1.4	0.70	ug/kg	
75-69-4	Trichlorofluoromethane	2.4 U	3.5	2.4	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.4 U	3.5	2.4	0.87	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.4 U	3.5	1.4	0.70	ug/kg	
108-05-4	Vinyl Acetate	14 U	17	14	11	ug/kg	
75-01-4	Vinyl Chloride	1.4 U	3.5	1.4	0.70	ug/kg	
	m,p-Xylene	2.8 U	7.0	2.8	0.76	ug/kg	
95-47-6	o-Xylene	1.4 U	3.5	1.4	0.70	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		75-124%
17060-07-0	1,2-Dichloroethane-D4	115%		72-135%
2037-26-5	Toluene-D8	101%		75-126%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS11-SO-22
Lab Sample ID: FA41805-11
Matrix: SO - Soil
Method: SW846 8260B
Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
Date Received: 03/07/17
Percent Solids: 97.2

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS11-SO-22

Lab Sample ID: FA41805-11

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 97.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052861.D	1	03/14/17	NG	03/10/17	OP64127	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	340 U	860	340	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	34 U	170	34	19	ug/kg	
95-57-8	2-Chlorophenol	34 U	170	34	21	ug/kg	
120-83-2	2,4-Dichlorophenol	34 U	170	34	20	ug/kg	
105-67-9	2,4-Dimethylphenol	69 U	170	69	46	ug/kg	
51-28-5	2,4-Dinitrophenol	510 U	860	510	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	340	140	69	ug/kg	
95-48-7	2-Methylphenol	34 U	170	34	21	ug/kg	
	3&4-Methylphenol	69 U	170	69	28	ug/kg	
88-75-5	2-Nitrophenol	34 U	170	34	19	ug/kg	
100-02-7	4-Nitrophenol	340 U	860	340	170	ug/kg	
87-86-5	Pentachlorophenol	340 U	860	340	170	ug/kg	
108-95-2	Phenol	34 U	170	34	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	34 U	170	34	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	34 U	170	34	20	ug/kg	
83-32-9	Acenaphthene	34 U	170	34	18	ug/kg	
208-96-8	Acenaphthylene	34 U	170	34	17	ug/kg	
62-53-3	Aniline	69 U	170	69	37	ug/kg	
120-12-7	Anthracene	34 U	170	34	19	ug/kg	
92-87-5	Benzidine	860 U	1700	860	340	ug/kg	
56-55-3	Benzo(a)anthracene	34 U	170	34	17	ug/kg	
50-32-8	Benzo(a)pyrene	34 U	170	34	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	34 U	170	34	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	34 U	170	34	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	34 U	170	34	22	ug/kg	
100-51-6	Benzyl Alcohol	34 U	170	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	34 U	170	34	18	ug/kg	
85-68-7	Butyl benzyl phthalate	69 U	170	69	34	ug/kg	
86-74-8	Carbazole	34 U	170	34	24	ug/kg	
106-47-8	4-Chloroaniline	69 U	170	69	43	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	34 U	170	34	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	34 U	170	34	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS11-SO-22
 Lab Sample ID: FA41805-11
 Matrix: SO - Soil
 Method: SW846 8270D SW846 3550C
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
 Date Received: 03/07/17
 Percent Solids: 97.2

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	34 U	170	34	22	ug/kg	
91-58-7	2-Chloronaphthalene	34 U	170	34	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	34 U	170	34	17	ug/kg	
218-01-9	Chrysene	34 U	170	34	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	34 U	170	34	21	ug/kg	
132-64-9	Dibenzofuran	34 U	170	34	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	69 U	170	69	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	69 U	170	69	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	69 U	170	69	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	69 U	170	69	41	ug/kg	
84-66-2	Diethyl Phthalate	120 U	340	120	34	ug/kg	
131-11-3	Dimethyl Phthalate	69 U	170	69	34	ug/kg	
117-84-0	Di-n-octyl Phthalate	69 U	170	69	34	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	340	120	69	ug/kg	
121-14-2	2,4-Dinitrotoluene	34 U	170	34	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	34 U	170	34	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	34 U	170	34	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	340	120	34	ug/kg	
206-44-0	Fluoranthene	34 U	170	34	17	ug/kg	
86-73-7	Fluorene	34 U	170	34	18	ug/kg	
118-74-1	Hexachlorobenzene	34 U	170	34	17	ug/kg	
87-68-3	Hexachlorobutadiene	69 U	170	69	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	69 U	170	69	34	ug/kg	
67-72-1	Hexachloroethane	69 U	170	69	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	34 U	170	34	21	ug/kg	
78-59-1	Isophorone	34 U	170	34	17	ug/kg	
90-12-0	1-Methylnaphthalene	34 U	170	34	17	ug/kg	
91-57-6	2-Methylnaphthalene	34 U	170	34	17	ug/kg	
91-20-3	Naphthalene	34 U	170	34	17	ug/kg	
88-74-4	2-Nitroaniline	69 U	170	69	40	ug/kg	
99-09-2	3-Nitroaniline	69 U	170	69	20	ug/kg	
100-01-6	4-Nitroaniline	69 U	170	69	49	ug/kg	
98-95-3	Nitrobenzene	34 U	170	34	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	69 U	170	69	29	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	34 U	170	34	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	69 U	170	69	18	ug/kg	
85-01-8	Phenanthrene	34 U	170	34	17	ug/kg	
129-00-0	Pyrene	34 U	170	34	20	ug/kg	
110-86-1	Pyridine	120 U J	340	120	69	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	34 U	170	34	20	ug/kg	

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS11-SO-22
Lab Sample ID: FA41805-11
Matrix: SO - Soil
Method: SW846 8270D SW846 3550C
Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
Date Received: 03/07/17
Percent Solids: 97.2

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	90%		40-102%
4165-62-2	Phenol-d5	137% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	90%		42-108%
4165-60-0	Nitrobenzene-d5	91%		40-105%
321-60-8	2-Fluorobiphenyl	90%		43-107%
1718-51-0	Terphenyl-d14	96%		45-119%

(a) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SG

FA41805

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS11-SO-22

Lab Sample ID: FA41805-11

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 97.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053875.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053988.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2	15.1 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	34	17	8.7	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.4	1.7	0.96	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.4	1.7	0.88	ug/kg	
1918-00-9	Dicamba	1.7 U	3.4	1.7	0.80	ug/kg	
88-85-7	Dinoseb	34 U	85	34	17	ug/kg	
75-99-0	Dalapon	68 U	170	68	34	ug/kg	
120-36-5	Dichloroprop	17 U	34	17	8.4	ug/kg	
94-82-6	2,4-DB	17 U	34	17	8.8	ug/kg	
93-65-2	MCP	1700 U	3400	1700	870	ug/kg	
94-74-6	MCPA	2600 U	3400	2600	1600	ug/kg	
87-86-5	Pentachlorophenol	1.7 U V	3.4	1.7	0.72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	13% ^b	38%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS11-SO-22
 Lab Sample ID: FA41805-11
 Matrix: SO - Soil
 Method: SW846 8081B SW846 3546
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
 Date Received: 03/07/17
 Percent Solids: 97.2

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	KK82133.D	1	03/15/17	MV	03/13/17	OP64153	GKK2633
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.85 U	1.7	0.85	0.54	ug/kg	
319-84-6	alpha-BHC	0.85 U	1.7	0.85	0.54	ug/kg	
319-85-7	beta-BHC	0.85 U	1.7	0.85	0.50	ug/kg	
319-86-8	delta-BHC	0.85 U	1.7	0.85	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.85 U	1.7	0.85	0.51	ug/kg	
5103-71-9	alpha-Chlordane	0.85 U	1.7	0.85	0.53	ug/kg	
5103-74-2	gamma-Chlordane	0.85 U	1.7	0.85	0.49	ug/kg	
60-57-1	Dieldrin	0.85 U	1.7	0.85	0.48	ug/kg	
72-54-8	4,4'-DDD	0.85 U	3.4	0.85	0.47	ug/kg	
72-55-9	4,4'-DDE	0.85 U	3.4	0.85	0.62	ug/kg	
50-29-3	4,4'-DDT	0.75	3.4	0.85	0.52	ug/kg	J
72-20-8	Endrin	1.7 U	3.4	1.7	0.86	ug/kg	
1031-07-8	Endosulfan sulfate	0.85 U	3.4	0.85	0.45	ug/kg	
7421-93-4	Endrin aldehyde	0.85 U	3.4	0.85	0.40	ug/kg	
53494-70-5	Endrin ketone	0.85 U	3.4	0.85	0.53	ug/kg	
959-98-8	Endosulfan-I	0.85 U	1.7	0.85	0.39	ug/kg	
33213-65-9	Endosulfan-II	0.85 U	1.7	0.85	0.40	ug/kg	
76-44-8	Heptachlor	0.85 U	1.7	0.85	0.50	ug/kg	
1024-57-3	Heptachlor epoxide	0.85 U	1.7	0.85	0.50	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.4	1.7	0.68	ug/kg	
8001-35-2	Toxaphene	43 U	85	43	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		50-122%
2051-24-3	Decachlorobiphenyl	103%		50-133%

(a) All hits confirmed by dual column analysis.

(b) (6)

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID:	FEIDS-SS11-SO-22	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-11	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	97.2
Method:	SW846 8082A SW846 3546		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39727.D	1	03/15/17	NJ	03/13/17	OP64154	GMM765
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.8	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.5	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.5	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.8	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.8	ug/kg	
11097-69-1	Aroclor 1254	12 U	17	12	6.8	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		44-126%
2051-24-3	Decachlorobiphenyl	91%		41-145%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS11-SO-22

Lab Sample ID: FA41805-11

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 97.2

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4200	42	10	1.8	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^a	0.16 J	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^a	1.8	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^a	34.7	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^a	0.23 J	0.42	0.21	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^a	0.072 J	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^a	7490	42	21	3.0	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^a	5.2	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^a	1.8	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^a	2.9	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^a	6140	42	10	3.3	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^a	4.9	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^a	1220	42	21	2.2	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^a	68.6	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.0083 J	0.041	0.016	0.0041	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^a	4.0	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^a	1000	42	21	2.7	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^a	1.8	0.42	0.21	0.075	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^a	0.21 U	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^a	21.8 J	42	21	2.0	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^a	0.048 J	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^a	10.7	0.42	0.21	0.042	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^a	183 J	0.42	0.21	0.12	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31789

(4) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result >= DL (MDL) but < LOQ

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS12-SO-23

Lab Sample ID: FA41805-I2

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 92.2

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33945.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

Run #	Initial Weight	Final Volume
Run #1	7.30 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	17 U ³	34	17	6.8	ug/kg	
71-43-2	Benzene	1.4 U	3.4	1.4	0.84	ug/kg	
108-86-1	Bromobenzene	1.4 U	3.4	1.4	0.68	ug/kg	
74-97-5	Bromochloromethane	1.4 U	3.4	1.4	1.0	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	3.4	1.4	0.68	ug/kg	
75-25-2	Bromoform	1.4 U	3.4	1.4	0.68	ug/kg	
78-93-3	2-Butanone (MEK)	10 U	17	10	5.0	ug/kg	
104-51-8	n-Butylbenzene	1.4 U	3.4	1.4	0.68	ug/kg	
135-98-8	sec-Butylbenzene	1.4 U	3.4	1.4	0.68	ug/kg	
98-06-6	tert-Butylbenzene	1.4 U	3.4	1.4	0.68	ug/kg	
75-15-0	Carbon Disulfide	1.4 U	3.4	1.4	0.68	ug/kg	
56-23-5	Carbon Tetrachloride	1.4 U	3.4	1.4	0.70	ug/kg	
108-90-7	Chlorobenzene	1.4 U	3.4	1.4	0.68	ug/kg	
75-00-3	Chloroethane	2.4 U	3.4	2.4	1.4	ug/kg	
67-66-3	Chloroform	1.4 U	3.4	1.4	0.91	ug/kg	
95-49-8	o-Chlorotoluene	1.4 U	3.4	1.4	0.68	ug/kg	
106-43-4	p-Chlorotoluene	1.4 U	3.4	1.4	0.68	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	3.4	1.4	0.68	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.4 U	3.4	2.4	1.3	ug/kg	
106-93-4	1,2-Dibromoethane	1.4 U	3.4	1.4	0.68	ug/kg	
75-71-8	Dichlorodifluoromethane	2.4 U	3.4	2.4	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.4 U	3.4	1.4	0.68	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.4 U	3.4	1.4	0.68	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.4 U	3.4	1.4	0.79	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.4	1.4	1.2	ug/kg	
107-06-2	1,2-Dichloroethane	1.4 U	3.4	1.4	0.68	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	3.4	1.4	0.68	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	3.4	1.4	0.95	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	3.4	1.4	0.68	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	3.4	1.4	0.68	ug/kg	
142-28-9	1,3-Dichloropropane	1.4 U	3.4	1.4	0.68	ug/kg	
594-20-7	2,2-Dichloropropane	1.4 U	3.4	1.4	0.68	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FEIDS-SS12-SO-23	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-12	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	92.2
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.4 U J	3.4	1.4	0.70	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	3.4	1.4	0.68	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	3.4	1.4	0.68	ug/kg	
100-41-4	Ethylbenzene	1.4 U	3.4	1.4	0.68	ug/kg	
87-68-3	Hexachlorobutadiene	1.4 U	3.4	1.4	0.88	ug/kg	
591-78-6	2-Hexanone	10 U	17	10	5.1	ug/kg	
98-82-8	Isopropylbenzene	1.4 U	3.4	1.4	0.68	ug/kg	
99-87-6	p-Isopropyltoluene	1.4 U	3.4	1.4	0.68	ug/kg	
74-83-9	Methyl Bromide	2.4 U	3.4	2.4	1.4	ug/kg	
74-87-3	Methyl Chloride	2.4 U	3.4	2.4	1.4	ug/kg	
74-95-3	Methylene Bromide	1.4 U	3.4	1.4	0.68	ug/kg	
75-09-2	Methylene Chloride	3.4 U	6.8	3.4	2.7	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	17	10	5.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.4 U	3.4	1.4	0.68	ug/kg	
91-20-3	Naphthalene	2.4 U	3.4	2.4	1.4	ug/kg	
103-65-1	n-Propylbenzene	1.4 U	3.4	1.4	0.68	ug/kg	
100-42-5	Styrene	1.4 U	3.4	1.4	0.68	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.4 U	3.4	1.4	0.71	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	3.4	1.4	0.68	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	3.4	1.4	0.88	ug/kg	
108-88-3	Toluene	1.4 U	3.4	1.4	0.68	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.4 U	3.4	2.4	0.96	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.4 U	3.4	2.4	0.68	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.4 U	3.4	1.4	0.68	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	3.4	1.4	0.68	ug/kg	
79-01-6	Trichloroethylene	1.4 U	3.4	1.4	0.68	ug/kg	
75-69-4	Trichlorofluoromethane	2.4 U	3.4	2.4	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.4 U	3.4	2.4	0.86	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	3.4	1.4	0.68	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.4 U	3.4	1.4	0.68	ug/kg	
108-05-4	Vinyl Acetate	14 U	17	14	11	ug/kg	
75-01-4	Vinyl Chloride	1.4 U	3.4	1.4	0.68	ug/kg	
	m,p-Xylene	2.7 U	6.8	2.7	0.75	ug/kg	
95-47-6	o-Xylene	1.4 U	3.4	1.4	0.68	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		75-124%
17060-07-0	1,2-Dichloroethane-D4	116%		72-135%
2037-26-5	Toluene-D8	105%		75-126%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS12-SO-23	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-12	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	92.2
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS12-SO-23

Lab Sample ID: FA41805-12

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 92.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052862.D	1	03/14/17	NG	03/10/17	OP64127	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	29.9 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	360 U	910	360	180	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	36 U	180	36	20	ug/kg	
95-57-8	2-Chlorophenol	36 U	180	36	22	ug/kg	
120-83-2	2,4-Dichlorophenol	36 U	180	36	21	ug/kg	
105-67-9	2,4-Dimethylphenol	73 U	180	73	48	ug/kg	
51-28-5	2,4-Dinitrophenol	540 U	910	540	180	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	150 U	360	150	73	ug/kg	
95-48-7	2-Methylpheno	36 U	180	36	22	ug/kg	
	3&4-Methylphenol	73 U	180	73	30	ug/kg	
88-75-5	2-Nitrophenol	36 U	180	36	20	ug/kg	
100-02-7	4-Nitrophenol	360 U	910	360	180	ug/kg	
87-86-5	Pentachlorophenol	360 U	910	360	180	ug/kg	
108-95-2	Phenol	36 U	180	36	18	ug/kg	
95-95-4	2,4,5-Trichlorophenol	36 U	180	36	29	ug/kg	
88-06-2	2,4,6-Trichlorophenol	36 U	180	36	21	ug/kg	
83-32-9	Acenaphthene	36 U	180	36	19	ug/kg	
208-96-8	Acenaphthylene	36 U	180	36	18	ug/kg	
62-53-3	Aniline	73 U	180	73	39	ug/kg	
120-12-7	Anthracene	36 U	180	36	20	ug/kg	
92-87-5	Benzidine	910 U	1800	910	360	ug/kg	
56-55-3	Benzo(a)anthracene	36 U	180	36	18	ug/kg	
50-32-8	Benzo(a)pyrene	36 U	180	36	21	ug/kg	
205-99-2	Benzo(h)fluoranthene	36 U	180	36	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	36 U	180	36	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	36 U	180	36	24	ug/kg	
100-51-6	Benzyl Alcohol	36 U	180	36	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	36 U	180	36	19	ug/kg	
85-68-7	Butyl benzyl phthalate	73 U	180	73	36	ug/kg	
86-74-8	Carbazole	36 U	180	36	25	ug/kg	
106-47-8	4-Chloroaniline	73 U	180	73	46	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	36 U	180	36	18	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	36 U	180	36	21	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS12-SO-23
 Lab Sample ID: FA41805-12
 Matrix: SO - Soil
 Method: SW846 8270D SW846 3550C
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
 Date Received: 03/07/17
 Percent Solids: 92.2

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	36 U	180	36	23	ug/kg	
91-58-7	2-Chloronaphthalene	36 U	180	36	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	36 U	180	36	18	ug/kg	
218-01-9	Chrysene	36 U	180	36	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	36 U	180	36	23	ug/kg	
132-64-9	Dibenzofuran	36 U	180	36	18	ug/kg	
95-50-1	1,2-Dichlorobenzene	73 U	180	73	18	ug/kg	
541-73-1	1,3-Dichlorobenzene	73 U	180	73	20	ug/kg	
106-46-7	1,4-Dichlorobenzene	73 U	180	73	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	73 U	180	73	43	ug/kg	
84-66-2	Diethyl Phthalate	130 U	360	130	36	ug/kg	
131-11-3	Dimethyl Phthalate	73 U	180	73	36	ug/kg	
117-84-0	Di-n-octyl Phthalate	73 U	180	73	36	ug/kg	
84-74-2	Di-n-butyl Phthalate	130 U	360	130	73	ug/kg	
121-14-2	2,4-Dinitrotoluene	36 U	180	36	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	36 U	180	36	23	ug/kg	
122-66-7	1,2-Diphenylhydrazine	36 U	180	36	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	130 U	360	130	36	ug/kg	
206-44-0	Fluoranthene	36 U	180	36	18	ug/kg	
86-73-7	Fluorene	36 U	180	36	19	ug/kg	
118-74-1	Hexachlorobenzene	36 U	180	36	18	ug/kg	
87-68-3	Hexachlorobutadiene	73 U	180	73	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	73 U	180	73	36	ug/kg	
67-72-1	Hexachloroethane	73 U	180	73	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	36 U	180	36	22	ug/kg	
78-59-1	Isophorone	36 U	180	36	18	ug/kg	
90-12-0	1-Methylnaphthalene	36 U	180	36	18	ug/kg	
91-57-6	2-Methylnaphthalene	36 U	180	36	18	ug/kg	
91-20-3	Naphthalene	36 U	180	36	18	ug/kg	
88-74-4	2-Nitroaniline	73 U	180	73	42	ug/kg	
99-09-2	3-Nitroaniline	73 U	180	73	21	ug/kg	
100-01-6	4-Nitroaniline	73 U	180	73	52	ug/kg	
98-95-3	Nitrobenzene	36 U	180	36	18	ug/kg	
62-75-9	N-Nitrosodimethylamine	73 U	180	73	30	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	36 U	180	36	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	73 U	180	73	20	ug/kg	
85-01-8	Phenanthrene	36 U	180	36	18	ug/kg	
129-00-0	Pyrene	36 U	180	36	21	ug/kg	
110-86-1	Pyridine	130 U J	360	130	73	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	36 U	180	36	21	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS12-SO-23	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-12	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	92.2
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	89%		40-102%
4165-62-2	Phenol-d5	137% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	86%		42-108%
4165-60-0	Nitrobenzene-d5	93%		40-105%
321-60-8	2-Fluorobiphenyl	86%		43-107%
1718-51-0	Terphenyl-d14	98%		45-119%

(a) Outside control limits.

U = Not detected	LOD = Limit of Detection	J = Indicates an estimated value
LOQ = Limit of Quantitation	DL = Detection Limit	B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS12-SO-23

Lab Sample ID: FA41805-12

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 92.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053876.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053989.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2	15.0 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	18 U J	36	18	9.1	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.8 U	3.6	1.8	1.0	ug/kg	
93-76-5	2,4,5-T	1.8 U	3.6	1.8	0.92	ug/kg	
1918-00-9	Dicamba	1.8 U	3.6	1.8	0.83	ug/kg	
88-85-7	Dinoseb	36 U	89	36	18	ug/kg	
75-99-0	Dalapon	71 U	180	71	36	ug/kg	
120-36-5	Dichloroprop	18 U	36	18	8.8	ug/kg	
94-82-6	2,4-DB	18 U	36	18	9.2	ug/kg	
93-65-2	MCP	1800 U	3600	1800	910	ug/kg	
94-74-6	MCPA	2700 U	3600	2700	1700	ug/kg	
87-86-5	Pentachlorophenol	1.8 U	3.6	1.8	0.75	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	9% ^b	86%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS12-SO-23

Lab Sample ID: FA41805-12

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 92.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82134.D	1	03/15/17	MV	03/13/17	OP64153	GKK2633
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.90 U	1.8	0.90	0.57	ug/kg	
319-84-6	alpha-BHC	0.90 U	1.8	0.90	0.57	ug/kg	
319-85-7	beta-BHC	0.90 U	1.8	0.90	0.53	ug/kg	
319-86-8	delta-BHC	0.90 U	1.8	0.90	0.51	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.90 U	1.8	0.90	0.54	ug/kg	
5103-71-9	alpha-Chlordane	0.90 U	1.8	0.90	0.56	ug/kg	
5103-74-2	gamma-Chlordane	0.90 U	1.8	0.90	0.52	ug/kg	
60-57-1	Dieldrin	0.90 U	1.8	0.90	0.51	ug/kg	
72-54-8	4,4'-DDD	0.90 U	3.6	0.90	0.50	ug/kg	
72-55-9	4,4'-DDE	0.90 U	3.6	0.90	0.66	ug/kg	
50-29-3	4,4'-DDT	0.90 U	3.6	0.90	0.55	ug/kg	
72-20-8	Endrin	1.8 U	3.6	1.8	0.91	ug/kg	
1031-07-8	Endosulfan sulfate	0.90 U	3.6	0.90	0.48	ug/kg	
7421-93-4	Endrin aldehyde	0.90 U	3.6	0.90	0.42	ug/kg	
53494-70-5	Endrin ketone	0.90 U	3.6	0.90	0.57	ug/kg	
959-98-8	Endosulfan-I	0.90 U	1.8	0.90	0.42	ug/kg	
33213-65-9	Endosulfan-II	0.90 U	1.8	0.90	0.43	ug/kg	
76-44-8	Heptachlor	0.90 U	1.8	0.90	0.54	ug/kg	
1024-57-3	Heptachlor epoxide	0.90 U	1.8	0.90	0.53	ug/kg	
72-43-5	Methoxychlor	1.8 U	3.6	1.8	0.72	ug/kg	
8001-35-2	Toxaphene	45 U	90	45	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		50-122%
2051-24-3	Decachlorobiphenyl	89%		50-133%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS12-SO-23

Lab Sample ID: FA41805-12

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3546

Percent Solids: 92.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39728.D	1	03/15/17	NJ	03/13/17	OP64154	GMM765
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	13 U	18	13	7.2	ug/kg	
11104-28-2	Aroclor 1221	13 U	18	13	9.0	ug/kg	
11141-16-5	Aroclor 1232	13 U	18	13	9.0	ug/kg	
53469-21-9	Aroclor 1242	13 U	18	13	7.2	ug/kg	
12672-29-6	Aroclor 1248	13 U	18	13	7.2	ug/kg	
11097-69-1	Aroclor 1254	13 U	18	13	7.2	ug/kg	
11096-82-5	Aroclor 1260	13 U	18	13	7.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	70%		44-126%
2051-24-3	Decachlorobiphenyl	73%		41-145%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS12-SO-23

Lab Sample ID: FA41805-12

Matrix: SO - Soil

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 92.2

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4980	40	10	1.8	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Antimony ^a	0.13 J	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Arsenic ^a	2.0	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Barium ^a	41.0	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Beryllium ^a	0.30 J	0.40	0.20	0.044	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cadmium ^a	0.073 J	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Calcium	8760	81	40	5.8	mg/kg	20	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Chromium ^a	5.6	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cobalt ^a	1.9	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Copper ^a	3.0	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Iron ^a	6470	40	10	3.2	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Lead ^a	4.8	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Magnesium ^a	1360	40	20	2.1	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Manganese ^a	75.7	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Mercury	0.0080 J	0.041	0.016	0.0041	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ⁴
Nickel ^a	3.9	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Potassium ^a	1130	40	20	2.7	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Selenium ^a	2.2	0.40	0.20	0.073	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Silver ^a	0.20 U	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Sodium ^a	36.6 J	40	20	1.9	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Thallium ^a	0.057 J	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Vanadium ^a	11.1	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Zinc ^a	17.9 J	0.40	0.20	0.12	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result ≥ DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS13-SO-23

Lab Sample ID: FA41805-13

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33983.D	1	03/09/17	EP	n/a	n/a	VY1345
Run #2							

	Initial Weight	Final Volume
Run #1	6.68 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	19 U ^J	37	19	7.5	ug/kg	
71-43-2	Benzene	1.5 U	3.7	1.5	0.91	ug/kg	
108-86-1	Bromobenzene	1.5 U	3.7	1.5	0.75	ug/kg	
74-97-5	Bromochloromethane	1.5 U	3.7	1.5	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.5 U	3.7	1.5	0.75	ug/kg	
75-25-2	Bromoform	1.5 U	3.7	1.5	0.75	ug/kg	
78-93-3	2-Butanone (MEK)	11 U	19	11	5.4	ug/kg	
104-51-8	n-Butylbenzene	1.5 U	3.7	1.5	0.75	ug/kg	
135-98-8	sec-Butylbenzene	1.5 U	3.7	1.5	0.75	ug/kg	
98-06-6	tert-Butylbenzene	1.5 U	3.7	1.5	0.75	ug/kg	
75-15-0	Carbon Disulfide	1.5 U	3.7	1.5	0.75	ug/kg	
56-23-5	Carbon Tetrachloride	1.5 U	3.7	1.5	0.76	ug/kg	
108-90-7	Chlorobenzene	1.5 U	3.7	1.5	0.75	ug/kg	
75-00-3	Chloroethane	2.6 U	3.7	2.6	1.5	ug/kg	
67-66-3	Chloroform	1.5 U	3.7	1.5	1.0	ug/kg	
95-49-8	o-Chlorotoluene	1.5 U	3.7	1.5	0.75	ug/kg	
106-43-4	p-Chlorotoluene	1.5 U	3.7	1.5	0.75	ug/kg	
124-48-1	Dibromochloromethane	1.5 U	3.7	1.5	0.75	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.6 U	3.7	2.6	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.5 U	3.7	1.5	0.75	ug/kg	
75-71-8	Dichlorodifluoromethane	2.6 U	3.7	2.6	1.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.5 U	3.7	1.5	0.75	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.5 U	3.7	1.5	0.75	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.5 U	3.7	1.5	0.86	ug/kg	
75-34-3	1,1-Dichloroethane	1.5 U	3.7	1.5	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.5 U	3.7	1.5	0.75	ug/kg	
75-35-4	1,1-Dichloroethylene	1.5 U	3.7	1.5	0.75	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.5 U	3.7	1.5	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.5 U	3.7	1.5	0.75	ug/kg	
78-87-5	1,2-Dichloropropane	1.5 U	3.7	1.5	0.75	ug/kg	
142-28-9	1,3-Dichloropropane	1.5 U	3.7	1.5	0.75	ug/kg	
594-20-7	2,2-Dichloropropane	1.5 U ^V	3.7	1.5	0.75	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS13-SO-23
 Lab Sample ID: FA41805-13
 Matrix: SO - Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 94.0

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.5 U J	3.7	1.5	0.76	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.5 U	3.7	1.5	0.75	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.5 U	3.7	1.5	0.75	ug/kg	
100-41-4	Ethylbenzene	1.5 U	3.7	1.5	0.75	ug/kg	
87-68-3	Hexachlorobutadiene	1.5 U	3.7	1.5	0.97	ug/kg	
591-78-6	2-Hexanone	11 U	19	11	5.6	ug/kg	
98-82-8	Isopropylbenzene	1.5 U	3.7	1.5	0.75	ug/kg	
99-87-6	p-Isopropyltoluene	1.5 U	3.7	1.5	0.75	ug/kg	
74-83-9	Methyl Bromide	2.6 U	3.7	2.6	1.5	ug/kg	
74-87-3	Methyl Chloride	2.6 U	3.7	2.6	1.5	ug/kg	
74-95-3	Methylene Bromide	1.5 U	3.7	1.5	0.75	ug/kg	
75-09-2	Methylene Chloride	3.7 U	7.5	3.7	3.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	11 U	19	11	5.6	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.5 U	3.7	1.5	0.75	ug/kg	
91-20-3	Naphthalene	2.6 U	3.7	2.6	1.5	ug/kg	
103-65-1	n-Propylbenzene	1.5 U	3.7	1.5	0.75	ug/kg	
100-42-5	Styrene	1.5 U	3.7	1.5	0.75	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.5 U	3.7	1.5	0.77	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.5 U	3.7	1.5	0.75	ug/kg	
127-18-4	Tetrachloroethylene	1.5 U	3.7	1.5	0.96	ug/kg	
108-88-3	Toluene	1.5 U	3.7	1.5	0.75	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.6 U	3.7	2.6	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.6 U	3.7	2.6	0.75	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.5 U	3.7	1.5	0.75	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.5 U	3.7	1.5	0.75	ug/kg	
79-01-6	Trichloroethylene	1.5 U	3.7	1.5	0.75	ug/kg	
75-69-4	Trichlorofluoromethane	2.6 U	3.7	2.6	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.6 U	3.7	2.6	0.94	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.5 U	3.7	1.5	0.75	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.5 U	3.7	1.5	0.75	ug/kg	
108-05-4	Vinyl Acetate	15 U	19	15	12	ug/kg	
75-01-4	Vinyl Chloride	1.5 U	3.7	1.5	0.75	ug/kg	
	m,p-Xylene	3.0 U	7.5	3.0	0.82	ug/kg	
95-47-6	o-Xylene	1.5 U	3.7	1.5	0.75	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		75-124%
17060-07-0	1,2-Dichloroethane-D4	114%		72-135%
2037-26-5	Toluene-D8	105%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS13-SO-23

Lab Sample ID: FA41805-13

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS13-SO-23

Lab Sample ID: FA41805-13

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052863.D	1	03/14/17	NG	03/10/17	OP64127	SX2240
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	350 U	870	350	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	35 U	170	35	20	ug/kg	
95-57-8	2-Chlorophenol	35 U	170	35	21	ug/kg	
120-83-2	2,4-Dichlorophenol	35 U	170	35	20	ug/kg	
105-67-9	2,4-Dimethylphenol	70 U	170	70	47	ug/kg	
51-28-5	2,4-Dinitrophenol	520 U	870	520	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	350	140	70	ug/kg	
95-48-7	2-Methylphenol	35 U	170	35	21	ug/kg	
	3&4-Methylphenol	70 U	170	70	29	ug/kg	
88-75-5	2-Nitrophenol	35 U	170	35	19	ug/kg	
100-02-7	4-Nitrophenol	350 U	870	350	170	ug/kg	
87-86-5	Pentachlorophenol	350 U	870	350	170	ug/kg	
108-95-2	Phenol	35 U	170	35	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	35 U	170	35	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	35 U	170	35	20	ug/kg	
83-32-9	Acenaphthene	35 U	170	35	19	ug/kg	
208-96-8	Acenaphthylene	35 U	170	35	17	ug/kg	
62-53-3	Aniline	70 U	170	70	37	ug/kg	
120-12-7	Anthracene	35 U	170	35	20	ug/kg	
92-87-5	Benzidine	870 U	1700	870	350	ug/kg	
56-55-3	Benzo(a)anthracene	35 U	170	35	17	ug/kg	
50-32-8	Benzo(a)pyrene	35 U	170	35	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	35 U	170	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	35 U	170	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	35 U	170	35	23	ug/kg	
100-51-6	Benzyl Alcohol	35 U	170	35	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	35 U	170	35	18	ug/kg	
85-68-7	Butyl benzyl phthalate	70 U	170	70	35	ug/kg	
86-74-8	Carbazole	35 U	170	35	24	ug/kg	
106-47-8	4-Chloroaniline	70 U	170	70	44	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	35 U	170	35	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	35 U	170	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SS13-SO-23	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-13	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.0
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	35 U	170	35	22	ug/kg	
91-58-7	2-Chloronaphthalene	35 U	170	35	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	35 U	170	35	17	ug/kg	
218-01-9	Chrysene	35 U	170	35	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	35 U	170	35	22	ug/kg	
132-64-9	Dibenzofuran	35 U	170	35	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	70 U	170	70	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	70 U	170	70	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	70 U	170	70	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	70 U	170	70	42	ug/kg	
84-66-2	Diethyl Phthalate	120 U	350	120	35	ug/kg	
131-11-3	Dimethyl Phthalate	70 U	170	70	35	ug/kg	
117-84-0	Di-n-octyl Phthalate	70 U	170	70	35	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	350	120	70	ug/kg	
121-14-2	2,4-Dinitrotoluene	35 U	170	35	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	35 U	170	35	23	ug/kg	
122-66-7	1,2-Diphenylhydrazine	35 U	170	35	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	350	120	35	ug/kg	
206-44-0	Fluoranthene	35 U	170	35	17	ug/kg	
86-73-7	Fluorene	35 U	170	35	19	ug/kg	
118-74-1	Hexachlorobenzene	35 U	170	35	18	ug/kg	
87-68-3	Hexachlorobutadiene	70 U	170	70	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	70 U	170	70	35	ug/kg	
67-72-1	Hexachloroethane	70 U	170	70	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	35 U	170	35	21	ug/kg	
78-59-1	Isophorone	35 U	170	35	17	ug/kg	
90-12-0	1-Methylnaphthalene	35 U	170	35	17	ug/kg	
91-57-6	2-Methylnaphthalene	35 U	170	35	17	ug/kg	
91-20-3	Naphthalene	35 U	170	35	17	ug/kg	
88-74-4	2-Nitroaniline	70 U	170	70	41	ug/kg	
99-09-2	3-Nitroaniline	70 U	170	70	20	ug/kg	
100-01-6	4-Nitroaniline	70 U	170	70	50	ug/kg	
98-95-3	Nitrobenzene	35 U	170	35	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	70 U	170	70	29	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	35 U	170	35	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	70 U	170	70	19	ug/kg	
85-01-8	Phenanthrene	35 U	170	35	17	ug/kg	
129-00-0	Pyrene	35 U	170	35	20	ug/kg	
110-86-1	Pyridine	120 U	350	120	70	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	35 U	170	35	21	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS13-SO-23	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-13	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.0
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		40-102%
4165-62-2	Phenol-d5	121% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	75%		42-108%
4165-60-0	Nitrobenzene-d5	78%		40-105%
321-60-8	2-Fluorobiphenyl	76%		43-107%
1718-51-0	Terphenyl-d14	89%		45-119%

(a) Outside control limits.

U = Not detected	LOD = Limit of Detection	J = Indicates an estimated value
LLOQ = Limit of Quantitation	DL = Detection Limit	B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS13-SO-23

Lab Sample ID: FA41805-13

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053877.D	1	03/17/17	MG	03/15/17	OP64183	GCC11113
Run #2 ^a	CC053990.D	1	03/24/17	NJ	03/23/17	OP64312	GCC11116

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2	15.5 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	35	17	8.9	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.5	1.7	0.98	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.5	1.7	0.90	ug/kg	
1918-00-9	Dicamba	1.7 U	3.5	1.7	0.81	ug/kg	
88-85-7	Dinoseb	35 U	87	35	17	ug/kg	
75-99-0	Dalapon	70 U	170	70	35	ug/kg	
120-36-5	Dichloroprop	17 U	35	17	8.6	ug/kg	
94-82-6	2,4-DB	17 U	35	17	9.0	ug/kg	
93-65-2	MCP	1700 U	3500	1700	890	ug/kg	
94-74-6	MCPA	2600 U	3500	2600	1700	ug/kg	
87-86-5	Pentachlorophenol	1.7 U	3.5	1.7	0.73	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^b	77%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS13-SO-23

Lab Sample ID: FA41805-13

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82358.D	1	03/24/17	MV	03/17/17	OP64223	GKK2638
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.87 U	1.7	0.87	0.55	ug/kg	
319-84-6	alpha-BHC	0.87 U	1.7	0.87	0.55	ug/kg	
319-85-7	beta-BHC	0.87 U	1.7	0.87	0.51	ug/kg	
319-86-8	delta-BHC	0.87 U	1.7	0.87	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.87 U	1.7	0.87	0.52	ug/kg	
5103-71-9	alpha-Chlordane	0.87 U	1.7	0.87	0.54	ug/kg	
5103-74-2	gamma-Chlordane	0.87 U	1.7	0.87	0.50	ug/kg	
60-57-1	Dieldrin	0.87 U	1.7	0.87	0.49	ug/kg	
72-54-8	4,4'-DDD	0.87 U	3.5	0.87	0.48	ug/kg	
72-55-9	4,4'-DDE	0.87 U	3.5	0.87	0.63	ug/kg	
50-29-3	4,4'-DDT	0.87 U	3.5	0.87	0.53	ug/kg	
72-20-8	Endrin	1.7 U	3.5	1.7	0.88	ug/kg	
1031-07-8	Endosulfan sulfate	0.87 U	3.5	0.87	0.46	ug/kg	
7421-93-4	Endrin aldehyde	0.87 U	3.5	0.87	0.40	ug/kg	
53494-70-5	Endrin ketone	0.87 U	3.5	0.87	0.55	ug/kg	
959-98-8	Endosulfan-I	0.87 U	1.7	0.87	0.40	ug/kg	
33213-65-9	Endosulfan-II	0.87 U	1.7	0.87	0.41	ug/kg	
76-44-8	Heptachlor	0.87 U	1.7	0.87	0.51	ug/kg	
1024-57-3	Heptachlor epoxide	0.87 U	1.7	0.87	0.51	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.5	1.7	0.70	ug/kg	
8001-35-2	Toxaphene	43 U	87	43	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		50-122%
2051-24-3	Decachlorobiphenyl	119%		50-133%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS13-SO-23

Lab Sample ID: FA41805-13

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3550C

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39819.D	1	03/20/17	NJ	03/17/17	OP64224	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	7.0	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.7	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.7	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	7.0	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	7.0	ug/kg	
11097-69-1	Aroclor 1254	12 U	17	12	7.0	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	7.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		44-126%
2051-24-3	Decachlorobiphenyl	97%		41-145%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS13-SO-23

Lab Sample ID: FA41805-13

Matrix: SO - Soil

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 94.0

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4920	45	11	2.0	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^a	0.12 J	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^a	2.2	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^a	41.6	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^a	0.32 J	0.45	0.23	0.049	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^a	0.047 J	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^a	8480	45	23	3.3	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^a	5.9	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^a	2.0	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^a	2.8	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^a	6560	45	11	3.6	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^a	4.1	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^a	1460	45	23	2.4	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^a	76.7	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.0088 J	0.041	0.016	0.0041	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^a	4.1	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^a	1250	45	23	3.0	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^a	2.1	0.45	0.23	0.082	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^a	0.23 U	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^a	26.4 J	45	23	2.2	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^a	0.056 J	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^a	11.1	0.45	0.23	0.045	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^a	16.6 J	0.45	0.23	0.13	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31789

(4) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

(b) (6)

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS14-SO-24

Lab Sample ID: FA41805-14

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 95.1

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33958.D	1	03/08/17	EP	n/a	n/a	VY1344
Run #2 ^b	F0082223.D	1	03/07/17	EP	n/a	n/a	VF2832

Run #	Initial Weight	Final Volume
Run #1	6.85 g	5.0 ml
Run #2	6.85 g	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	18 U ^J	36	18	7.3	ug/kg	
71-43-2	Benzene	1.5 U	3.6	1.5	0.89	ug/kg	
108-86-1	Bromobenzene	1.5 U	3.6	1.5	0.73	ug/kg	
74-97-5	Bromochloromethane	1.5 U	3.6	1.5	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.5 U	3.6	1.5	0.73	ug/kg	
75-25-2	Bromoform	1.5 U	3.6	1.5	0.73	ug/kg	
78-93-3	2-Butanone (MEK)	11 U	18	11	5.3	ug/kg	
104-51-8	n-Butylbenzene	1.5 U	3.6	1.5	0.73	ug/kg	
135-98-8	sec-Butylbenzene	1.5 U	3.6	1.5	0.73	ug/kg	
98-06-6	tert-Butylbenzene	1.5 U	3.6	1.5	0.73	ug/kg	
75-15-0	Carbon Disulfide	1.5 U	3.6	1.5	0.73	ug/kg	
56-23-5	Carbon Tetrachloride	1.5 U	3.6	1.5	0.74	ug/kg	
108-90-7	Chlorobenzene	1.5 U	3.6	1.5	0.73	ug/kg	
75-00-3	Chloroethane	2.6 U	3.6	2.6	1.5	ug/kg	
67-66-3	Chloroform	1.5 U	3.6	1.5	0.97	ug/kg	
95-49-8	o-Chlorotoluene	1.5 U	3.6	1.5	0.73	ug/kg	
106-43-4	p-Chlorotoluene	1.5 U	3.6	1.5	0.73	ug/kg	
124-48-1	Dibromochloromethane	1.5 U	3.6	1.5	0.73	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.6 U	3.6	2.6	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.5 U	3.6	1.5	0.73	ug/kg	
75-71-8	Dichlorodifluoromethane	2.6 U	3.6	2.6	1.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.5 U	3.6	1.5	0.73	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.5 U	3.6	1.5	0.73	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.5 U	3.6	1.5	0.84	ug/kg	
75-34-3	1,1-Dichloroethane	1.5 U	3.6	1.5	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.5 U	3.6	1.5	0.73	ug/kg	
75-35-4	1,1-Dichloroethylene	1.5 U	3.6	1.5	0.73	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.5 U	3.6	1.5	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.5 U	3.6	1.5	0.73	ug/kg	
78-87-5	1,2-Dichloropropane	1.5 U	3.6	1.5	0.73	ug/kg	
142-28-9	1,3-Dichloropropane	1.5 U	3.6	1.5	0.73	ug/kg	
594-20-7	2,2-Dichloropropane	1.5 U ^N	3.6	1.5	0.73	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Client Sample ID: FEIDS-SS14-SO-24

Lab Sample ID: FA41805-14

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 95.1

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.5 U ^J	3.6	1.5	0.74	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.5 U	3.6	1.5	0.73	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.5 U	3.6	1.5	0.73	ug/kg	
100-41-4	Ethylbenzene	1.5 U	3.6	1.5	0.73	ug/kg	
87-68-3	Hexachlorobutadiene	1.5 U	3.6	1.5	0.94	ug/kg	
591-78-6	2-Hexanone ^C	11 U	18	11	5.5	ug/kg	
98-82-8	Isopropylbenzene	1.5 U	3.6	1.5	0.73	ug/kg	
99-87-6	p-Isopropyltoluene	1.5 U	3.6	1.5	0.73	ug/kg	
74-83-9	Methyl Bromide	2.6 U	3.6	2.6	1.5	ug/kg	
74-87-3	Methyl Chloride	2.6 U	3.6	2.6	1.5	ug/kg	
74-95-3	Methylene Bromide	1.5 U	3.6	1.5	0.73	ug/kg	
75-09-2	Methylene Chloride	3.6 U	7.3	3.6	2.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIB) ^C	11 U	18	11	5.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.5 U	3.6	1.5	0.73	ug/kg	
91-20-3	Naphthalene	2.6 U	3.6	2.6	1.5	ug/kg	
103-65-1	n-Propylbenzene	1.5 U	3.6	1.5	0.73	ug/kg	
100-42-5	Styrene ^d	1.5 U	3.6	1.5	0.73	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.5 U	3.6	1.5	0.75	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.5 U	3.6	1.5	0.73	ug/kg	
127-18-4	Tetrachloroethylene	1.5 U	3.6	1.5	0.93	ug/kg	
108-88-3	Toluene	1.5 U	3.6	1.5	0.73	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.6 U	3.6	2.6	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.6 U	3.6	2.6	0.73	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.5 U	3.6	1.5	0.73	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.5 U	3.6	1.5	0.73	ug/kg	
79-01-6	Trichloroethylene	1.5 U	3.6	1.5	0.73	ug/kg	
75-69-4	Trichlorofluoromethane	2.6 U	3.6	2.6	1.5	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.6 U	3.6	2.6	0.91	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.5 U	3.6	1.5	0.73	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.5 U	3.6	1.5	0.73	ug/kg	
108-05-4	Vinyl Acetate	15 U	18	15	12	ug/kg	
75-01-4	Vinyl Chloride	1.5 U	3.6	1.5	0.73	ug/kg	
	m,p-Xylene	2.9 U	7.3	2.9	0.80	ug/kg	
95-47-6	o-Xylene	1.5 U ^J	3.6	1.5	0.73	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%	108%	75-124%
17060-07-0	1,2-Dichloroethane-D4	107%	121%	72-135%
2037-26-5	Toluene-D8	105%	94%	75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS14-SO-24

Lab Sample ID: FA41805-14

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 95.1

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%	94%	71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

(b) Confirmation run. ECC ANALYZED PAST 12 HRS

(c) Associated BS recovery outside control limits.

(d) Associated BS recovery outside DOD QSM control limits.

U = Not detected LOD = Limit of Detection
I.O.Q. = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID:	FEIDS-SS14-SO-24	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-14	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	95.1
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052942.D	1	03/16/17	NG	03/10/17	OP64127	SX2243
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	350 U ^J	880	350	180	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	35 U	180	35	20	ug/kg	
95-57-8	2-Chlorophenol	35 U	180	35	21	ug/kg	
120-83-2	2,4-Dichlorophenol	35 U	180	35	20	ug/kg	
105-67-9	2,4-Dimethylphenol	70 U	180	70	47	ug/kg	
51-28-5	2,4-Dinitrophenol	530 U	880	530	180	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	350	140	70	ug/kg	
95-48-7	2-Methylphenol	35 U	180	35	21	ug/kg	
	3&4-Methylphenol	70 U	180	70	29	ug/kg	
88-75-5	2-Nitrophenol	35 U	180	35	19	ug/kg	
100-02-7	4-Nitrophenol	350 U	880	350	180	ug/kg	
87-86-5	Pentachlorophenol	350 U	880	350	180	ug/kg	
108-95-2	Phenol	35 U	180	35	18	ug/kg	
95-95-4	2,4,5-Trichlorophenol	35 U	180	35	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	35 U	180	35	20	ug/kg	
83-32-9	Acenaphthene	35 U	180	35	19	ug/kg	
208-96-8	Acenaphthylene	35 U	180	35	18	ug/kg	
62-53-3	Aniline	70 U	180	70	38	ug/kg	
120-12-7	Anthracene	35 U	180	35	20	ug/kg	
92-87-5	Benzidine	880 U ^J	1800	880	350	ug/kg	
56-55-3	Benzo(a)anthracene	35 U	180	35	18	ug/kg	
50-32-8	Benzo(a)pyrene	35 U	180	35	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	35 U	180	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	35 U	180	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	35 U	180	35	23	ug/kg	
100-51-6	Benzyl Alcohol	35 U	180	35	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	35 U	180	35	18	ug/kg	
85-68-7	Butyl benzyl phthalate	70 U	180	70	35	ug/kg	
86-74-8	Carbazole	35 U	180	35	24	ug/kg	
106-47-8	4-Chloroaniline	70 U	180	70	44	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	35 U	180	35	18	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	35 U	180	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SS14-SO-24		
Lab Sample ID:	FA41805-14	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8270D SW846 3550C	Percent Solids:	95.1
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	35 U	180	35	22	ug/kg	
91-58-7	2-Chloronaphthalene	35 U	180	35	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	35 U	180	35	18	ug/kg	
218-01-9	Chrysene	35 U	180	35	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	35 U	180	35	22	ug/kg	
132-64-9	Dibenzofuran	35 U	180	35	18	ug/kg	
95-50-1	1,2-Dichlorobenzene	70 U	180	70	18	ug/kg	
541-73-1	1,3-Dichlorobenzene	70 U	180	70	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	70 U	180	70	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	70 U	180	70	42	ug/kg	
84-66-2	Diethyl Phthalate	120 U	350	120	35	ug/kg	
131-11-3	Dimethyl Phthalate	70 U	180	70	35	ug/kg	
117-84-0	Di-n-octyl Phthalate	70 U	180	70	35	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	350	120	70	ug/kg	
121-14-2	2,4-Dinitrotoluene	35 U	180	35	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	35 U	180	35	23	ug/kg	
122-66-7	1,2-Diphenylhydrazine	35 U	180	35	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	350	120	35	ug/kg	
206-44-0	Fluoranthene	35 U	180	35	18	ug/kg	
86-73-7	Fluorene	35 U	180	35	19	ug/kg	
118-74-1	Hexachlorobenzene	35 U	180	35	18	ug/kg	
87-68-3	Hexachlorobutadiene	70 U	180	70	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	70 U	180	70	35	ug/kg	
67-72-1	Hexachloroethane	70 U	180	70	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	35 U	180	35	21	ug/kg	
78-59-1	Isophorone	35 U	180	35	18	ug/kg	
90-12-0	1-Methylnaphthalene	35 U	180	35	18	ug/kg	
91-57-6	2-Methylnaphthalene	35 U	180	35	18	ug/kg	
91-20-3	Naphthalene	35 U	180	35	18	ug/kg	
88-74-4	2-Nitroaniline	70 U	180	70	41	ug/kg	
99-09-2	3-Nitroaniline	70 U	180	70	20	ug/kg	
100-01-6	4-Nitroaniline	70 U	180	70	50	ug/kg	
98-95-3	Nitrobenzene	35 U	180	35	18	ug/kg	
62-75-9	N-Nitrosodimethylamine	70 U	180	70	29	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	35 U	180	35	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	70 U	180	70	19	ug/kg	
85-01-8	Phenanthrene	35 U	180	35	18	ug/kg	
129-00-0	Pyrene	35 U	180	35	20	ug/kg	
110-86-1	Pyridine ^a	120 U J	350	120	70	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	35 U	180	35	21	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS14-SO-24	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-14	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	95.1
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	77%		40-102%
4165-62-2	Phenol-d5	115% ^b		41-100%
118-79-6	2,4,6-Tribromophenol	71%		42-108%
4165-60-0	Nitrobenzene-d5	76%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	72%		45-119%

(a) Associated CCV outside control limits.

(b) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS14-SO-24

Lab Sample ID: FA41805-14

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 95.1

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053878.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053991.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2	15.0 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	35	17	8.9	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.5	1.7	0.98	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.5	1.7	0.90	ug/kg	
1918-00-9	Dicamba	1.7 U	3.5	1.7	0.81	ug/kg	
88-85-7	Dinoseb	35 U	87	35	17	ug/kg	
75-99-0	Dalapon	70 U	170	70	35	ug/kg	
120-36-5	Dichloroprop	17 U	35	17	8.6	ug/kg	
94-82-6	2,4-DB	17 U	35	17	9.0	ug/kg	
93-65-2	MCP	1700 U	3500	1700	890	ug/kg	
94-74-6	MCPA	2600 U	3500	2600	1700	ug/kg	
87-86-5	Pentachlorophenol	1.7 U	3.5	1.7	0.73	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	22% ^b	81%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

4.14

Project: Far East Dump Site, Fort Bliss, TX

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.86 U	1.7	0.86	0.55	ug/kg	
319-84-6	alpha-BHC	0.86 U	1.7	0.86	0.55	ug/kg	
319-85-7	beta-BHC	0.86 U	1.7	0.86	0.51	ug/kg	
319-86-8	delta-BHC	0.86 U	1.7	0.86	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.86 U	1.7	0.86	0.52	ug/kg	
5103-71-9	alpha-Chlordane	0.86 U	1.7	0.86	0.54	ug/kg	
5103-74-2	gamma-Chlordane	0.86 U	1.7	0.86	0.50	ug/kg	
60-57-1	Dieldrin	0.86 U	1.7	0.86	0.48	ug/kg	
72-54-8	4,4'-DDD	0.86 U	3.5	0.86	0.48	ug/kg	
72-55-9	4,4'-DDE	0.86 U	3.5	0.86	0.63	ug/kg	
50-29-3	4,4'-DDT	0.86 U	3.5	0.86	0.53	ug/kg	
72-20-8	Endrin	1.7 U	3.5	1.7	0.88	ug/kg	
1031-07-8	Endosulfan sulfate	0.86 U	3.5	0.86	0.46	ug/kg	
7421-93-4	Endrin aldehyde	0.86 U	3.5	0.86	0.40	ug/kg	
53494-70-5	Endrin ketone	0.86 U	3.5	0.86	0.54	ug/kg	
959-98-8	Endosulfan-I	0.86 U	1.7	0.86	0.40	ug/kg	
33213-65-9	Endosulfan-II	0.86 U	1.7	0.86	0.41	ug/kg	
76-44-8	Heptachlor	0.86 U	1.7	0.86	0.51	ug/kg	
1024-57-3	Heptachlor epoxide	0.86 U	1.7	0.86	0.51	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.5	1.7	0.69	ug/kg	
8001-35-2	Toxaphene	43 U	86	43	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		50-122%
2051-24-3	Decachlorobiphenyl	106%		50-133%

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS14-SO-24

Lab Sample ID: FA41805-14

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3550C

Percent Solids: 95.1

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39820.D	1	03/20/17	NJ	03/17/17	OP64224	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.9	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.6	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.6	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.9	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.9	ug/kg	
11097-69-1	Aroclor 1254	12 U	17	12	6.9	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		44-126%
2051-24-3	Decachlorobiphenyl	85%		41-145%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS14-SO-24

Lab Sample ID: FA41805-14

Matrix: SO - Soil

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 95.1

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	3810 J	40	10	1.7	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^a	0.10 J	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^a	1.6	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^a	28.6 J	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^a	0.22 J	0.40	0.20	0.043	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^a	0.068 J	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^a	1790	40	20	2.9	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^a	4.8	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^a	1.5	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^a	2.8	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^a	5310 J	40	10	3.1	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^a	4.6	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^a	1020	40	20	2.1	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^a	64.6 J	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.0090 J	0.040	0.016	0.0040	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^a	3.1	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^a	1060	40	20	2.6	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^a	1.8	0.40	0.20	0.072	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^a	0.20 U J	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^a	18.7 J	40	20	1.9	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^a	0.046 J	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^a	8.2 J	0.40	0.20	0.040	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^a	13.9 J	0.40	0.20	0.12	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31789

(4) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB12-SO-25

Lab Sample ID: FA41805-15

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 94.6

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33947.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

	Initial Weight	Final Volume
Run #1	5.90 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	21 U J	42	21	8.5	ug/kg	
71-43-2	Benzene	1.7 U	4.2	1.7	1.0	ug/kg	
108-86-1	Bromobenzene	1.7 U	4.2	1.7	0.85	ug/kg	
74-97-5	Bromochloromethane	1.7 U	4.2	1.7	1.3	ug/kg	
75-27-4	Bromodichloromethane	1.7 U	4.2	1.7	0.85	ug/kg	
75-25-2	Bromoform	1.7 U	4.2	1.7	0.85	ug/kg	
78-93-3	2-Butanone (MEK)	13 U	21	13	6.2	ug/kg	
104-51-8	n-Butylbenzene	1.7 U	4.2	1.7	0.85	ug/kg	
135-98-8	sec-Butylbenzene	1.7 U	4.2	1.7	0.85	ug/kg	
98-06-6	tert-Butylbenzene	1.7 U	4.2	1.7	0.85	ug/kg	
75-15-0	Carbon Disulfide	1.7 U	4.2	1.7	0.85	ug/kg	
56-23-5	Carbon Tetrachloride	1.7 U	4.2	1.7	0.86	ug/kg	
108-90-7	Chlorobenzene	1.7 U	4.2	1.7	0.85	ug/kg	
75-00-3	Chloroethane	3.0 U	4.2	3.0	1.7	ug/kg	
67-66-3	Chloroform	1.7 U	4.2	1.7	1.1	ug/kg	
95-49-8	o-Chlorotoluene	1.7 U	4.2	1.7	0.85	ug/kg	
106-43-4	p-Chlorotoluene	1.7 U	4.2	1.7	0.85	ug/kg	
124-48-1	Dibromochloromethane	1.7 U	4.2	1.7	0.85	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	3.0 U	4.2	3.0	1.6	ug/kg	
106-93-4	1,2-Dibromoethane	1.7 U	4.2	1.7	0.85	ug/kg	
75-71-8	Dichlorodifluoromethane	3.0 U	4.2	3.0	1.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.7 U	4.2	1.7	0.85	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.7 U	4.2	1.7	0.85	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.7 U	4.2	1.7	0.97	ug/kg	
75-34-3	1,1-Dichloroethane	1.7 U	4.2	1.7	1.5	ug/kg	
107-06-2	1,2-Dichloroethane	1.7 U	4.2	1.7	0.85	ug/kg	
75-35-4	1,1-Dichloroethylene	1.7 U	4.2	1.7	0.85	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.7 U	4.2	1.7	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.7 U	4.2	1.7	0.85	ug/kg	
78-87-5	1,2-Dichloropropane	1.7 U	4.2	1.7	0.85	ug/kg	
142-28-9	1,3-Dichloropropane	1.7 U	4.2	1.7	0.85	ug/kg	
594-20-7	2,2-Dichloropropane	1.7 U	4.2	1.7	0.85	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB12-SO-25	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-15	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.6
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.7 U ^J	4.2	1.7	0.86	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.7 U	4.2	1.7	0.85	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.7 U	4.2	1.7	0.85	ug/kg	
100-41-4	Ethylbenzene	1.7 U	4.2	1.7	0.85	ug/kg	
87-68-3	Hexachlorobutadiene	1.7 U	4.2	1.7	1.1	ug/kg	
591-78-6	2-Hexanone	13 U	21	13	6.4	ug/kg	
98-82-8	Isopropylbenzene	1.7 U	4.2	1.7	0.85	ug/kg	
99-87-6	p-Isopropyltoluene	1.7 U	4.2	1.7	0.85	ug/kg	
74-83-9	Methyl Bromide	3.0 U	4.2	3.0	1.7	ug/kg	
74-87-3	Methyl Chloride	3.0 U	4.2	3.0	1.7	ug/kg	
74-95-3	Methylene Bromide	1.7 U	4.2	1.7	0.85	ug/kg	
75-09-2	Methylene Chloride	4.2 U	8.5	4.2	3.4	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	13 U	21	13	6.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.7 U	4.2	1.7	0.85	ug/kg	
91-20-3	Naphthalene	3.0 U	4.2	3.0	1.7	ug/kg	
103-65-1	n-Propylbenzene	1.7 U	4.2	1.7	0.85	ug/kg	
100-42-5	Styrene	1.7 U	4.2	1.7	0.85	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.7 U	4.2	1.7	0.87	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.7 U	4.2	1.7	0.85	ug/kg	
127-18-4	Tetrachloroethylene	1.7 U	4.2	1.7	1.1	ug/kg	
108-88-3	Toluene	1.7 U	4.2	1.7	0.85	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	3.0 U	4.2	3.0	1.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	3.0 U	4.2	3.0	0.85	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.7 U	4.2	1.7	0.85	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.7 U	4.2	1.7	0.85	ug/kg	
79-01-6	Trichloroethylene	1.7 U	4.2	1.7	0.85	ug/kg	
75-69-4	Trichlorofluoromethane	3.0 U	4.2	3.0	1.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	3.0 U	4.2	3.0	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.7 U	4.2	1.7	0.85	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.7 U	4.2	1.7	0.85	ug/kg	
108-05-4	Vinyl Acetate	17 U	21	17	14	ug/kg	
75-01-4	Vinyl Chloride	1.7 U	4.2	1.7	0.85	ug/kg	
	m,p-Xylene	3.4 U	8.5	3.4	0.93	ug/kg	
95-47-6	o-Xylene	1.7 U	4.2	1.7	0.85	ug/kg	

CAS No.	Surrogate	Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane		120%		75-124%
17060-07-0	1,2-Dichloroethane-D4		120%		72-135%
2037-26-5	Toluene-D8		101%		75-126%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SB12-SO-25	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-15	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.6
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected	LOD = Limit of Detection	J = Indicates an estimated value
LOQ = Limit of Quantitation	DL = Detection Limit	B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID:	FEIDS-SB12-SO-25	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-15	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.6
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052993.D	1	03/17/17	NG	03/10/17	OP64127	SX2244
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	350 U	870	350	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	35 U	170	35	20	ug/kg	
95-57-8	2-Chlorophenol	35 U	170	35	21	ug/kg	
120-83-2	2,4-Dichlorophenol	35 U	170	35	20	ug/kg	
105-67-9	2,4-Dimethylphenol	69 U	170	69	46	ug/kg	
51-28-5	2,4-Dinitrophenol	520 U	870	520	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	350	140	69	ug/kg	
95-48-7	2-Methylphenol	35 U	170	35	21	ug/kg	
	3&4-Methylphenol	69 U	170	69	29	ug/kg	
88-75-5	2-Nitrophenol	35 U	170	35	19	ug/kg	
100-02-7	4-Nitrophenol	350 U	870	350	170	ug/kg	
87-86-5	Pentachlorophenol	350 U	870	350	170	ug/kg	
108-95-2	Phenol	35 U	170	35	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	35 U	170	35	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	35 U	170	35	20	ug/kg	
83-32-9	Acenaphthene	35 U	170	35	18	ug/kg	
208-96-8	Acenaphthylene	35 U	170	35	17	ug/kg	
62-53-3	Aniline	69 U	170	69	37	ug/kg	
120-12-7	Anthracene	35 U	170	35	19	ug/kg	
92-87-5	Benzidine	870 U	1700	870	350	ug/kg	
56-55-3	Benzo(a)anthracene	35 U	170	35	17	ug/kg	
50-32-8	Benzo(a)pyrene	35 U	170	35	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	35 U	170	35	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	35 U	170	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	35 U	170	35	23	ug/kg	
100-51-6	Benzyl Alcohol	35 U	170	35	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	35 U	170	35	18	ug/kg	
85-68-7	Butyl benzyl phthalate	69 U	170	69	35	ug/kg	
86-74-8	Carbazole	35 U	170	35	24	ug/kg	
106-47-8	4-Chloroaniline	69 U	170	69	44	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	35 U	170	35	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	35 U	170	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB12-SO-25	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-15	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.6
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	35 U	170	35	22	ug/kg	
91-58-7	2-Chloronaphthalene	35 U	170	35	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	35 U	170	35	17	ug/kg	
218-01-9	Chrysene	35 U	170	35	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	35 U	170	35	22	ug/kg	
132-64-9	Dibenzofuran	35 U	170	35	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	69 U	170	69	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	69 U	170	69	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	69 U	170	69	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	69 U	170	69	41	ug/kg	
84-66-2	Diethyl Phthalate	120 U	350	120	35	ug/kg	
131-11-3	Dimethyl Phthalate	69 U	170	69	35	ug/kg	
117-84-0	Di-n-octyl Phthalate	69 U	170	69	35	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	350	120	69	ug/kg	
121-14-2	2,4-Dinitrotoluene	35 U	170	35	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	35 U	170	35	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	35 U	170	35	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	350	120	35	ug/kg	
206-44-0	Fluoranthene	35 U	170	35	17	ug/kg	
86-73-7	Fluorene	35 U	170	35	19	ug/kg	
118-74-1	Hexachlorobenzene	35 U	170	35	18	ug/kg	
87-68-3	Hexachlorobutadiene	69 U	170	69	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	69 U	170	69	35	ug/kg	
67-72-1	Hexachloroethane	69 U	170	69	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	35 U	170	35	21	ug/kg	
78-59-1	Isophorone	35 U	170	35	17	ug/kg	
90-12-0	1-Methylnaphthalene	35 U	170	35	17	ug/kg	
91-57-6	2-Methylnaphthalene	35 U	170	35	17	ug/kg	
91-20-3	Naphthalene	35 U	170	35	17	ug/kg	
88-74-4	2-Nitroaniline	69 U	170	69	40	ug/kg	
99-09-2	3-Nitroaniline	69 U	170	69	20	ug/kg	
100-01-6	4-Nitroaniline	69 U	170	69	50	ug/kg	
98-95-3	Nitrobenzene	35 U	170	35	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	69 U	170	69	29	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	35 U	170	35	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	69 U	170	69	19	ug/kg	
85-01-8	Phenanthrene	35 U	170	35	17	ug/kg	
129-00-0	Pyrene	35 U	170	35	20	ug/kg	
110-86-1	Pyridine	120 U	350	120	69	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	35 U	170	35	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SB12-SO-25	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-15	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	94.6
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	82%		40-102%
4165-62-2	Phenol-d5	128% ^a		41-100%
118-79-6	2,4,6-Tribromophenol	77%		42-108%
4165-60-0	Nitrobenzene-d5	81%		40-105%
321-60-8	2-Fluorobiphenyl	77%		43-107%
1718-51-0	Terphenyl-d14	80%		45-119%

(a) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB12-SO-25

Lab Sample ID: FA41805-15

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 94.6

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053881.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053992.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2	14.7 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	34	17	8.8	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.4	1.7	0.96	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.4	1.7	0.89	ug/kg	
1918-00-9	Dicamba	1.7 U	3.4	1.7	0.80	ug/kg	
88-85-7	Dinoseb	34 U	86	34	17	ug/kg	
75-99-0	Dalapon	69 U	170	69	34	ug/kg	
120-36-5	Dichloroprop	17 U	34	17	8.5	ug/kg	
94-82-6	2,4-DB	17 U	34	17	8.9	ug/kg	
93-65-2	MCP	1700 U	3400	1700	880	ug/kg	
94-74-6	MCPA	2600 U	3400	2600	1700	ug/kg	
87-86-5	Pentachlorophenol	1.7 U	3.4	1.7	0.72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	5% ^b	65%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB12-SO-25

Lab Sample ID: FA41805-15

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 94.6

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82362.D	1	03/24/17	MV	03/17/17	OP64223	GKK2638
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.88 U	1.8	0.88	0.56	ug/kg	
319-84-6	alpha-BHC	0.88 U	1.8	0.88	0.56	ug/kg	
319-85-7	beta-BHC	0.88 U	1.8	0.88	0.52	ug/kg	
319-86-8	delta-BHC	0.88 U	1.8	0.88	0.50	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.88 U	1.8	0.88	0.53	ug/kg	
5103-71-9	alpha-Chlordane	0.88 U	1.8	0.88	0.55	ug/kg	
5103-74-2	gamma-Chlordane	0.88 U	1.8	0.88	0.51	ug/kg	
60-57-1	Dieldrin	0.88 U	1.8	0.88	0.49	ug/kg	
72-54-8	4,4'-DDD	0.88 U	3.5	0.88	0.49	ug/kg	
72-55-9	4,4'-DDE	0.88 U	3.5	0.88	0.64	ug/kg	
50-29-3	4,4'-DDT	0.88 U	3.5	0.88	0.54	ug/kg	
72-20-8	Endrin	1.8 U	3.5	1.8	0.89	ug/kg	
1031-07-8	Endosulfan sulfate	0.88 U	3.5	0.88	0.47	ug/kg	
7421-93-4	Endrin aldehyde	0.88 U	3.5	0.88	0.41	ug/kg	
53494-70-5	Endrin ketone	0.88 U	3.5	0.88	0.55	ug/kg	
959-98-8	Endosulfan-I	0.88 U	1.8	0.88	0.41	ug/kg	
33213-65-9	Endosulfan-II	0.88 U	1.8	0.88	0.42	ug/kg	
76-44-8	Heptachlor	0.88 U	1.8	0.88	0.52	ug/kg	
1024-57-3	Heptachlor epoxide	0.88 U	1.8	0.88	0.52	ug/kg	
72-43-5	Methoxychlor	1.8 U	3.5	1.8	0.70	ug/kg	
8001-35-2	Toxaphene	44 U	88	44	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		50-122%
2051-24-3	Decachlorobiphenyl	116%		50-133%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB12-SO-25	Date Sampled: 03/06/17
Lab Sample ID: FA41805-15	Date Received: 03/07/17
Matrix: SO - Soil	Percent Solids: 94.6
Method: SW846 8082A SW846 3550C	
Project: Far East Dump Site, Fort Bliss, TX	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39821.D	1	03/20/17	NJ	03/17/17	OP64224	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	18	12	7.0	ug/kg	
11104-28-2	Aroclor 1221	12 U	18	12	8.8	ug/kg	
11141-16-5	Aroclor 1232	12 U	18	12	8.8	ug/kg	
53469-21-9	Aroclor 1242	12 U	18	12	7.0	ug/kg	
12672-29-6	Aroclor 1248	12 U	18	12	7.0	ug/kg	
11097-69-1	Aroclor 1254	12 U	18	12	7.0	ug/kg	
11096-82-5	Aroclor 1260	12 U	18	12	7.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		44-126%
2051-24-3	Decachlorobiphenyl	93%		41-145%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB12-SO-25

Lab Sample ID: FA41805-15

Matrix: SO - Soil

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 94.6

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4450	46	12	2.0	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Antimony ^a	0.092 J	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Arsenic ^a	2.3	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Barium ^a	92.2	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Beryllium ^a	0.26 J	0.46	0.23	0.050	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cadmium ^a	0.047 J	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Calcium	113000	930	460	67	mg/kg	200	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Chromium ^a	4.1	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cobalt ^a	2.3	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Copper ^a	1.8	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Iron ^a	4230	46	12	3.7	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Lead ^a	2.7	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Magnesium ^a	4650	46	23	2.4	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Manganese ^a	44.8	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Mercury	0.0070 J	0.041	0.017	0.0041	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ⁴
Nickel ^a	5.2	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Potassium ^a	677	46	23	3.0	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Selenium ^a	1.4	0.46	0.23	0.083	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Silver ^a	0.23 U	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Sodium ^a	235	46	23	2.2	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Thallium ^a	0.23 U	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Vanadium ^a	9.9	0.46	0.23	0.046	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Zinc ^a	101 J	0.46	0.23	0.13	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS15-SO-26

Lab Sample ID: FA41805-16

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 98.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33948.D	1	03/07/17	EP	n/a	n/a	VY1343
Run #2							

	Initial Weight	Final Volume
Run #1	6.92 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	18 U J	36	18	7.2	ug/kg	
71-43-2	Benzene	1.4 U	3.6	1.4	0.88	ug/kg	
108-86-1	Bromobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
74-97-5	Bromochloromethane	1.4 U	3.6	1.4	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-25-2	Bromoform	1.4 U	3.6	1.4	0.72	ug/kg	
78-93-3	2-Butanone (MEK)	11 U	18	11	5.3	ug/kg	
104-51-8	n-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
135-98-8	sec-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
98-06-6	tert-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
75-15-0	Carbon Disulfide	1.4 U	3.6	1.4	0.72	ug/kg	
56-23-5	Carbon Tetrachloride	1.4 U	3.6	1.4	0.74	ug/kg	
108-90-7	Chlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
75-00-3	Chloroethane	2.5 U	3.6	2.5	1.4	ug/kg	
67-66-3	Chloroform	1.4 U	3.6	1.4	0.96	ug/kg	
95-49-8	o-Chlorotoluene	1.4 U	3.6	1.4	0.72	ug/kg	
106-43-4	p-Chlorotoluene	1.4 U	3.6	1.4	0.72	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	3.6	1.4	0.72	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.5 U	3.6	2.5	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-71-8	Dichlorodifluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.4 U	3.6	1.4	0.83	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.6	1.4	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	3.6	1.4	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	3.6	1.4	0.72	ug/kg	
142-28-9	1,3-Dichloropropane	1.4 U	3.6	1.4	0.72	ug/kg	
594-20-7	2,2-Dichloropropane	1.4 U	3.6	1.4	0.72	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS15-SO-26
 Lab Sample ID: FA41805-16
 Matrix: SO - Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
 Date Received: 03/07/17
 Percent Solids: 98.2

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.4 U J	3.6	1.4	0.74	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	3.6	1.4	0.72	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	3.6	1.4	0.72	ug/kg	
100-41-4	Ethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
87-68-3	Hexachlorobutadiene	1.4 U	3.6	1.4	0.93	ug/kg	
591-78-6	2-Hexanone	11 U	18	11	5.4	ug/kg	
98-82-8	Isopropylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
99-87-6	p-Isopropyltoluene	1.4 U	3.6	1.4	0.72	ug/kg	
74-83-9	Methyl Bromide	2.5 U	3.6	2.5	1.4	ug/kg	
74-87-3	Methyl Chloride	2.5 U	3.6	2.5	1.4	ug/kg	
74-95-3	Methylene Bromide	1.4 U	3.6	1.4	0.72	ug/kg	
75-09-2	Methylene Chloride	3.6 U	7.2	3.6	2.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	11 U	18	11	5.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.4 U	3.6	1.4	0.72	ug/kg	
91-20-3	Naphthalene	2.5 U	3.6	2.5	1.4	ug/kg	
103-65-1	n-Propylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
100-42-5	Styrene	1.4 U	3.6	1.4	0.72	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.4 U	3.6	1.4	0.74	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	3.6	1.4	0.92	ug/kg	
108-88-3	Toluene	1.4 U	3.6	1.4	0.72	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	3.6	2.5	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	3.6	2.5	0.72	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
79-01-6	Trichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
75-69-4	Trichlorofluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.5 U	3.6	2.5	0.90	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
108-05-4	Vinyl Acetate	14 U	18	14	12	ug/kg	
75-01-4	Vinyl Chloride	1.4 U	3.6	1.4	0.72	ug/kg	
	m,p-Xylene	2.9 U	7.2	2.9	0.79	ug/kg	
95-47-6	o-Xylene	1.4 U	3.6	1.4	0.72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	120%		75-124%
17060-07-0	1,2-Dichloroethane-D4	116%		72-135%
2037-26-5	Toluene-D8	102%		75-126%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS15-SO-26	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-16	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	98.2
Method:	SW846 8260B		
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS15-SO-26

Lab Sample ID: FA41805-16

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 98.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052949.D	1	03/16/17	NG	03/14/17	OP64167	SX2243
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	330 U	840	330	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	33 U	170	33	19	ug/kg	
95-57-8	2-Chlorophenol	33 U	170	33	21	ug/kg	
120-83-2	2,4-Dichlorophenol	33 U	170	33	19	ug/kg	
105-67-9	2,4-Dimethylphenol	67 U	170	67	45	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	840	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	330	130	67	ug/kg	
95-48-7	2-Methylphenol	33 U	170	33	20	ug/kg	
	3&4-Methylphenol	67 U	170	67	28	ug/kg	
88-75-5	2-Nitrophenol	33 U	170	33	18	ug/kg	
100-02-7	4-Nitrophenol	330 U	840	330	170	ug/kg	
87-86-5	Pentachlorophenol	330 U	840	330	170	ug/kg	
108-95-2	Phenol	33 U	170	33	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	33 U	170	33	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	33 U	170	33	19	ug/kg	
83-32-9	Acenaphthene	33 U	170	33	18	ug/kg	
208-96-8	Acenaphthylene	33 U	170	33	17	ug/kg	
62-53-3	Aniline	67 U	170	67	36	ug/kg	
120-12-7	Anthracene	33 U	170	33	19	ug/kg	
92-87-5	Benzidine	840 U	1700	840	330	ug/kg	
56-55-3	Benzo(a)anthracene	33 U	170	33	17	ug/kg	
50-32-8	Benzo(a)pyrene	33 U	170	33	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	33 U	170	33	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33 U	170	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	33 U	170	33	22	ug/kg	
100-51-6	Benzyl Alcohol	33 U	170	33	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	33 U	170	33	17	ug/kg	
85-68-7	Butyl benzyl phthalate	67 U	170	67	33	ug/kg	
86-74-8	Carbazole	33 U	170	33	23	ug/kg	
106-47-8	4-Chloroaniline	67 U	170	67	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	33 U	170	33	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	33 U	170	33	19	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SS15-SO-26		
Lab Sample ID:	FA41805-16	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8270D SW846 3550C	Percent Solids:	98.2
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	33 U	170	33	21	ug/kg	
91-58-7	2-Chloronaphthalene	33 U	170	33	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	33 U	170	33	17	ug/kg	
218-01-9	Chrysene	33 U	170	33	17	ug/kg	
53-70-3	Dibenzo(a, h)anthracene	33 U	170	33	21	ug/kg	
132-64-9	Dibenzofuran	33 U	170	33	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	67 U	170	67	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	67 U	170	67	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	67 U	170	67	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	67 U	170	67	40	ug/kg	
84-66-2	Diethyl Phthalate	120 U	330	120	33	ug/kg	
131-11-3	Dimethyl Phthalate	67 U	170	67	33	ug/kg	
117-84-0	Di-n-octyl Phthalate	67 U	170	67	33	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	330	120	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	33 U	170	33	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	33 U	170	33	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	33 U	170	33	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	330	120	33	ug/kg	
206-44-0	Fluoranthene	33 U	170	33	17	ug/kg	
86-73-7	Fluorene	33 U	170	33	18	ug/kg	
118-74-1	Hexachlorobenzene	33 U	170	33	17	ug/kg	
87-68-3	Hexachlorobutadiene	67 U	170	67	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	67 U	170	67	33	ug/kg	
67-72-1	Hexachloroethane	67 U	170	67	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	33 U	170	33	20	ug/kg	
78-59-1	Isophorone	33 U	170	33	17	ug/kg	
90-12-0	1-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-57-6	2-Methylnaphthalene	33 U	170	33	17	ug/kg	
91-20-3	Naphthalene	33 U	170	33	17	ug/kg	
88-74-4	2-Nitroaniline	67 U	170	67	39	ug/kg	
99-09-2	3-Nitroaniline	67 U	170	67	20	ug/kg	
100-01-6	4-Nitroaniline	67 U	170	67	48	ug/kg	
98-95-3	Nitrobenzene	33 U	170	33	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	67 U	170	67	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	33 U	170	33	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	67 U	170	67	18	ug/kg	
85-01-8	Phenanthrene	33 U	170	33	17	ug/kg	
129-00-0	Pyrene	33 U	170	33	19	ug/kg	
110-86-1	Pyridine ^a	120 U	330	120	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	33 U	170	33	20	ug/kg	

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS15-SO-26	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-16	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	98.2
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		40-102%
4165-62-2	Phenol-d5	109% ^b		41-100%
118-79-6	2,4,6-Tribromophenol	65%		42-108%
4165-60-0	Nitrobenzene-d5	70%		40-105%
321-60-8	2-Fluorobiphenyl	68%		43-107%
1718-51-0	Terphenyl-d14	68%		45-119%

(a) Associated CCV outside control limits.

(b) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID:	FEIDS-SS15-SO-26			
Lab Sample ID:	FA41805-I6		Date Sampled:	03/06/17
Matrix:	SO - Soil		Date Received:	03/07/17
Method:	SW846 8151A SW846 3546		Percent Solids:	98.2
Project:	Far East Dump Site, Fort Bliss, TX			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053884.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053997.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2	15.5 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	33	17	8.6	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.3	1.7	0.94	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.3	1.7	0.86	ug/kg	
1918-00-9	Dicamba	1.7 U	3.3	1.7	0.78	ug/kg	
88-85-7	Dinoseb	33 U	84	33	17	ug/kg	
75-99-0	Dalapon	67 U	170	67	33	ug/kg	
120-36-5	Dichloroprop	17 U	33	17	8.3	ug/kg	
94-82-6	2,4-DB	17 U	33	17	8.7	ug/kg	
93-65-2	MCPP	1700 U	3300	1700	860	ug/kg	
94-74-6	MCPA	2500 U	3300	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.7 U	3.3	1.7	0.71	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	14% ^b	82%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS15-SO-26

Lab Sample ID: FA41805-16

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 98.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82363.D	1	03/24/17	MV	03/17/17	OP64223	GKK2638
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.84 U	1.7	0.84	0.53	ug/kg	
319-84-6	alpha-BHC	0.84 U	1.7	0.84	0.53	ug/kg	
319-85-7	beta-BHC	0.84 U	1.7	0.84	0.50	ug/kg	
319-86-8	delta-BHC	0.84 U	1.7	0.84	0.48	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.84 U	1.7	0.84	0.51	ug/kg	
5103-71-9	alpha-Chlordane	0.84 U	1.7	0.84	0.53	ug/kg	
5103-74-2	gamma-Chlordane	0.84 U	1.7	0.84	0.49	ug/kg	
60-57-1	Dieldrin	0.84 U	1.7	0.84	0.47	ug/kg	
72-54-8	4,4'-DDD	0.84 U	3.4	0.84	0.47	ug/kg	
72-55-9	4,4'-DDE	0.84 U	3.4	0.84	0.61	ug/kg	
50-29-3	4,4'-DDT	0.84 U	3.4	0.84	0.52	ug/kg	
72-20-8	Endrin	1.7 U	3.4	1.7	0.85	ug/kg	
1031-07-8	Endosulfan sulfate	0.84 U	3.4	0.84	0.45	ug/kg	
7421-93-4	Endrin aldehyde	0.84 U	3.4	0.84	0.39	ug/kg	
53494-70-5	Endrin ketone	0.84 U	3.4	0.84	0.53	ug/kg	
959-98-8	Endosulfan-I	0.84 U	1.7	0.84	0.39	ug/kg	
33213-65-9	Endosulfan-II	0.84 U	1.7	0.84	0.40	ug/kg	
76-44-8	Heptachlor	0.84 U	1.7	0.84	0.50	ug/kg	
1024-57-3	Heptachlor epoxide	0.84 U	1.7	0.84	0.50	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.4	1.7	0.67	ug/kg	
8001-35-2	Toxaphene	42 U	84	42	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		50-122%
2051-24-3	Decachlorobiphenyl	99%		50-133%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS15-SO-26

Lab Sample ID: FA41805-16

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3550C

Percent Solids: 98.2

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39822.D	I	03/20/17	NJ	03/17/17	OP64224	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.7	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.4	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.4	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.7	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.7	ug/kg	
11097-69-1	Aroclor 1254	12 U	17	12	6.7	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		44-126%
2051-24-3	Decachlorobiphenyl	77%		41-145%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS15-SO-26

Lab Sample ID: FA41805-16

Matrix: SO - Soil

Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 98.2

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4750	34	8.5	1.5	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Antimony ^a	0.088 J	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Arsenic ^a	2.0	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Barium ^a	38.4	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Beryllium ^a	0.23 J	0.34	0.17	0.037	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Cadmium ^a	0.039 J	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Calcium ^a	3410	34	17	2.5	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Chromium ^a	5.7	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Cobalt ^a	1.9	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Copper ^a	2.7	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Iron ^a	6350	34	8.5	2.7	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Lead ^a	3.9	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Magnesium ^a	1340	34	17	1.8	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Manganese	81.0	0.68	0.34	0.068	mg/kg	20	03/21/17	03/23/17 DM	SW846 6020A	³ SW846 3050B ⁵
Mercury	0.0098 J	0.039	0.016	0.0039	mg/kg	1	03/15/17	03/15/17 JL	SW846 7471B	¹ SW846 7471B ⁴
Nickel ^a	4.0	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Potassium ^a	1310	34	17	2.2	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Selenium ^a	2.0	0.34	0.17	0.062	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Silver ^a	0.17 U	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Sodium ^a	24.0 J	34	17	1.6	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Thallium ^a	0.053 J	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Vanadium ^a	9.9	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Zinc ^a	150 J	0.34	0.17	0.099	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

(b) (6)

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB13-SO-27

Lab Sample ID: FA41805-17

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 93.4

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33963.D	1	03/08/17	EP	n/a	n/a	VY1344
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.95 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	21 U ^J	42	21	8.4	ug/kg	
71-43-2	Benzene	1.7 U	4.2	1.7	1.0	ug/kg	
108-86-1	Bromobenzene	1.7 U	4.2	1.7	0.84	ug/kg	
74-97-5	Bromochloromethane	1.7 U	4.2	1.7	1.2	ug/kg	
75-27-4	Bromodichloromethane	1.7 U	4.2	1.7	0.84	ug/kg	
75-25-2	Bromoform	1.7 U	4.2	1.7	0.84	ug/kg	
78-93-3	2-Butanone (MEK)	13 U	21	13	6.1	ug/kg	
104-51-8	n-Butylbenzene	1.7 U	4.2	1.7	0.84	ug/kg	
135-98-8	sec-Butylbenzene	1.7 U	4.2	1.7	0.84	ug/kg	
98-06-6	tert-Butylbenzene	1.7 U	4.2	1.7	0.84	ug/kg	
75-15-0	Carbon Disulfide	1.7 U	4.2	1.7	0.84	ug/kg	
56-23-5	Carbon Tetrachloride	1.7 U	4.2	1.7	0.86	ug/kg	
108-90-7	Chlorobenzene	1.7 U	4.2	1.7	0.84	ug/kg	
75-00-3	Chloroethane	2.9 U	4.2	2.9	1.7	ug/kg	
67-66-3	Chloroform	1.7 U	4.2	1.7	1.1	ug/kg	
95-49-8	o-Chlorotoluene	1.7 U	4.2	1.7	0.84	ug/kg	
106-43-4	p-Chlorotoluene	1.7 U	4.2	1.7	0.84	ug/kg	
124-48-1	Dibromochloromethane	1.7 U	4.2	1.7	0.84	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.9 U	4.2	2.9	1.6	ug/kg	
106-93-4	1,2-Dibromoethane	1.7 U	4.2	1.7	0.84	ug/kg	
75-71-8	Dichlorodifluoromethane	2.9 U	4.2	2.9	1.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.7 U	4.2	1.7	0.84	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.7 U	4.2	1.7	0.84	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.7 U	4.2	1.7	0.97	ug/kg	
75-34-3	1,1-Dichloroethane	1.7 U	4.2	1.7	1.5	ug/kg	
107-06-2	1,2-Dichloroethane	1.7 U	4.2	1.7	0.84	ug/kg	
75-35-4	1,1-Dichloroethylene	1.7 U	4.2	1.7	0.84	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.7 U	4.2	1.7	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.7 U	4.2	1.7	0.84	ug/kg	
78-87-5	1,2-Dichloropropane	1.7 U	4.2	1.7	0.84	ug/kg	
142-28-9	1,3-Dichloropropane	1.7 U	4.2	1.7	0.84	ug/kg	
594-20-7	2,2-Dichloropropane	1.7 U ^J	4.2	1.7	0.84	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Client Sample ID:	FEIDS-SB13-SO-27		
Lab Sample ID:	FA41805-17	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8260B	Percent Solids:	93.4
Project:	Far East Dump Site, Fort Bliss, TX		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.7 U J	4.2	1.7	0.86	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.7 U	4.2	1.7	0.84	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.7 U	4.2	1.7	0.84	ug/kg	
100-41-4	Ethylbenzene	1.7 U	4.2	1.7	0.84	ug/kg	
87-68-3	Hexachlorobutadiene	1.7 U	4.2	1.7	1.1	ug/kg	
591-78-6	2-Hexanone ^b	13 U	21	13	6.3	ug/kg	
98-82-8	Isopropylbenzene	1.7 U	4.2	1.7	0.84	ug/kg	
99-87-6	p-Isopropyltoluene	1.7 U	4.2	1.7	0.84	ug/kg	
74-83-9	Methyl Bromide	2.9 U	4.2	2.9	1.7	ug/kg	
74-87-3	Methyl Chloride	2.9 U	4.2	2.9	1.7	ug/kg	
74-95-3	Methylene Bromide	1.7 U	4.2	1.7	0.84	ug/kg	
75-09-2	Methylene Chloride	4.2 U	8.4	4.2	3.4	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIB) ^b	13 U	21	13	6.3	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.7 U	4.2	1.7	0.84	ug/kg	
91-20-3	Naphthalene	2.9 U	4.2	2.9	1.7	ug/kg	
103-65-1	n-Propylbenzene	1.7 U	4.2	1.7	0.84	ug/kg	
100-42-5	Styrene ^c	1.7 U	4.2	1.7	0.84	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.7 U	4.2	1.7	0.87	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.7 U	4.2	1.7	0.84	ug/kg	
127-18-4	Tetrachloroethylene	1.7 U	4.2	1.7	1.1	ug/kg	
108-88-3	Toluene	1.7 U	4.2	1.7	0.84	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.9 U	4.2	2.9	1.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.9 U	4.2	2.9	0.84	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.7 U	4.2	1.7	0.84	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.7 U	4.2	1.7	0.84	ug/kg	
79-01-6	Trichloroethylene	1.7 U	4.2	1.7	0.84	ug/kg	
75-69-4	Trichlorofluoromethane	2.9 U	4.2	2.9	1.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.9 U	4.2	2.9	1.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.7 U	4.2	1.7	0.84	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.7 U	4.2	1.7	0.84	ug/kg	
108-05-4	Vinyl Acetate	17 U	21	17	14	ug/kg	
75-01-4	Vinyl Chloride	1.7 U	4.2	1.7	0.84	ug/kg	
	m,p-Xylene	3.4 U	8.4	3.4	0.92	ug/kg	
95-47-6	o-Xylene	1.7 U V	4.2	1.7	0.84	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		75-124%
17060-07-0	1,2-Dichloroethane-D4	117%		72-135%
2037-26-5	Toluene-D8	103%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SB13-SO-27

Lab Sample ID: FA41805-17

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 93.4

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

(b) Associated BS recovery outside control limits.

(c) Associated BS recovery outside DOD QSM control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SB13-SO-27

Lab Sample ID: FA41805-17

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 93.4

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052950.D	1	03/16/17	NG	03/14/17	OP64167	SX2243
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	360 U	890	360	180	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	36 U	180	36	20	ug/kg	
95-57-8	2-Chlorophenol	36 U	180	36	22	ug/kg	
120-83-2	2,4-Dichlorophenol	36 U	180	36	20	ug/kg	
105-67-9	2,4-Dimethylphenol	71 U	180	71	47	ug/kg	
51-28-5	2,4-Dinitrophenol	540 U	890	540	180	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	360	140	71	ug/kg	
95-48-7	2-Methylphenol	36 U	180	36	21	ug/kg	
	3&4-Methylphenol	71 U	180	71	29	ug/kg	
88-75-5	2-Nitrophenol	36 U	180	36	19	ug/kg	
100-02-7	4-Nitrophenol	360 U	890	360	180	ug/kg	
87-86-5	Pentachlorophenol	360 U	890	360	180	ug/kg	
108-95-2	Phenol	36 U	180	36	18	ug/kg	
95-95-4	2,4,5-Trichlorophenol	36 U	180	36	29	ug/kg	
88-06-2	2,4,6-Trichlorophenol	36 U	180	36	21	ug/kg	
83-32-9	Acenaphthene	36 U	180	36	19	ug/kg	
208-96-8	Acenaphthylene	36 U	180	36	18	ug/kg	
62-53-3	Aniline	71 U	180	71	38	ug/kg	
120-12-7	Anthracene	36 U	180	36	20	ug/kg	
92-87-5	Benzidine	890 U	1800	890	360	ug/kg	
56-55-3	Benzo(a)anthracene	36 U	180	36	18	ug/kg	
50-32-8	Benzo(a)pyrene	36 U	180	36	21	ug/kg	
205-99-2	Benzo(b)fluoranthene	36 U	180	36	20	ug/kg	
191-24-2	Benzo(g,h,i)perylene	36 U	180	36	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	36 U	180	36	23	ug/kg	
100-51-6	Benzyl Alcohol	36 U	180	36	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	36 U	180	36	19	ug/kg	
85-68-7	Butyl benzyl phthalate	71 U	180	71	36	ug/kg	
86-74-8	Carbazole	36 U	180	36	25	ug/kg	
106-47-8	4-Chloroaniline	71 U	180	71	45	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	36 U	180	36	18	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	36 U	180	36	21	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SB13-SO-27		
Lab Sample ID:	FA41805-17	Date Sampled:	03/06/17
Matrix:	SO - Soil	Date Received:	03/07/17
Method:	SW846 8270D SW846 3550C	Percent Solids:	93.4
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	36 U	180	36	22	ug/kg	
91-58-7	2-Chloronaphthalene	36 U	180	36	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	36 U	180	36	18	ug/kg	
218-01-9	Chrysene	36 U	180	36	18	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	36 U	180	36	22	ug/kg	
132-64-9	Dibenzofuran	36 U	180	36	18	ug/kg	
95-50-1	1,2-Dichlorobenzene	71 U	180	71	18	ug/kg	
541-73-1	1,3-Dichlorobenzene	71 U	180	71	19	ug/kg	
106-46-7	1,4-Dichlorobenzene	71 U	180	71	24	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	71 U	180	71	42	ug/kg	
84-66-2	Diethyl Phthalate	120 U	360	120	36	ug/kg	
131-11-3	Dimethyl Phthalate	71 U	180	71	36	ug/kg	
117-84-0	Di-n-octyl Phthalate	71 U	180	71	36	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	360	120	71	ug/kg	
121-14-2	2,4-Dinitrotoluene	36 U	180	36	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	36 U	180	36	23	ug/kg	
122-66-7	1,2-Diphenylhydrazine	36 U	180	36	18	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	360	120	36	ug/kg	
206-44-0	Fluoranthene	36 U	180	36	18	ug/kg	
86-73-7	Fluorene	36 U	180	36	19	ug/kg	
118-74-1	Hexachlorobenzene	36 U	180	36	18	ug/kg	
87-68-3	Hexachlorobutadiene	71 U	180	71	18	ug/kg	
77-47-4	Hexachlorocyclopentadiene	71 U	180	71	36	ug/kg	
67-72-1	Hexachloroethane	71 U	180	71	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	36 U	180	36	22	ug/kg	
78-59-1	Isophorone	36 U	180	36	18	ug/kg	
90-12-0	1-Methylnaphthalene	36 U	180	36	18	ug/kg	
91-57-6	2-Methylnaphthalene	36 U	180	36	18	ug/kg	
91-20-3	Naphthalene	36 U	180	36	18	ug/kg	
88-74-4	2-Nitroaniline	71 U	180	71	41	ug/kg	
99-09-2	3-Nitroaniline	71 U	180	71	21	ug/kg	
100-01-6	4-Nitroaniline	71 U	180	71	51	ug/kg	
98-95-3	Nitrobenzene	36 U	180	36	18	ug/kg	
62-75-9	N-Nitrosodimethylamine	71 U	180	71	30	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	36 U	180	36	18	ug/kg	
86-30-6	N-Nitrosodiphenylamine	71 U	180	71	19	ug/kg	
85-01-8	Phenanthrene	36 U	180	36	18	ug/kg	
129-00-0	Pyrene	36 U	180	36	21	ug/kg	
110-86-1	Pyridine ^a	120 U J	360	120	71	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	36 U	180	36	21	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SB13-SO-27	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-17	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	93.4
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	78%		40-102%
4165-62-2	Phenol-d5	118% ^b		41-100%
118-79-6	2,4,6-Tribromophenol	76%		42-108%
4165-60-0	Nitrobenzene-d5	78%		40-105%
321-60-8	2-Fluorobiphenyl	74%		43-107%
1718-51-0	Terphenyl-d14	77%		45-119%

(a) Associated CCV outside control limits.

(b) Outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB13-SO-27

Lab Sample ID: FA41805-17

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 93.4

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053885.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053998.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2	14.8 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	18 U J	35	18	9.0	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.8 U	3.5	1.8	0.99	ug/kg	
93-76-5	2,4,5-T	1.8 U	3.5	1.8	0.91	ug/kg	
1918-00-9	Dicamba	1.8 U	3.5	1.8	0.82	ug/kg	
88-85-7	Dinoseb	35 U	88	35	18	ug/kg	
75-99-0	Dalapon	70 U	180	70	35	ug/kg	
120-36-5	Dichloroprop	18 U	35	18	8.7	ug/kg	
94-82-6	2,4-DB	18 U	35	18	9.1	ug/kg	
93-65-2	MCP	1800 U	3500	1800	900	ug/kg	
94-74-6	MCPA	2600 U	3500	2600	1700	ug/kg	
87-86-5	Pentachlorophenol	1.8 U	3.5	1.8	0.74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	4% ^b	46%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB13-SO-27

Lab Sample ID: FA41805-17

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 93.4

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82364.D	1	03/24/17	MV	03/17/17	OP64223	GKK2638
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.88 U	1.8	0.88	0.56	ug/kg	
319-84-6	alpha-BHC	0.88 U	1.8	0.88	0.56	ug/kg	
319-85-7	beta-BHC	0.88 U	1.8	0.88	0.52	ug/kg	
319-86-8	delta-BHC	0.88 U	1.8	0.88	0.50	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.88 U	1.8	0.88	0.53	ug/kg	
5103-71-9	alpha-Chlordane	0.88 U	1.8	0.88	0.55	ug/kg	
5103-74-2	gamma-Chlordane	0.88 U	1.8	0.88	0.51	ug/kg	
60-57-1	Dieldrin	0.88 U	1.8	0.88	0.49	ug/kg	
72-54-8	4,4'-DDD	0.88 U	3.5	0.88	0.49	ug/kg	
72-55-9	4,4'-DDE	0.88 U	3.5	0.88	0.64	ug/kg	
50-29-3	4,4'-DDT	0.88 U	3.5	0.88	0.54	ug/kg	
72-20-8	Endrin	1.8 U	3.5	1.8	0.89	ug/kg	
1031-07-8	Endosulfan sulfate	0.88 U	3.5	0.88	0.46	ug/kg	
7421-93-4	Endrin aldehyde	0.88 U	3.5	0.88	0.41	ug/kg	
53494-70-5	Endrin ketone	0.88 U	3.5	0.88	0.55	ug/kg	
959-98-8	Endosulfan-I	0.88 U	1.8	0.88	0.41	ug/kg	
33213-65-9	Endosulfan-II	0.88 U	1.8	0.88	0.42	ug/kg	
76-44-8	Heptachlor	0.88 U	1.8	0.88	0.52	ug/kg	
1024-57-3	Heptachlor epoxide	0.88 U	1.8	0.88	0.52	ug/kg	
72-43-5	Methoxychlor	1.8 U	3.5	1.8	0.70	ug/kg	
8001-35-2	Toxaphene	44 U	88	44	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	109%		50-122%
2051-24-3	Decachlorobiphenyl	126%		50-133%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB13-SO-27

Lab Sample ID: FA41805-17

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3550C

Percent Solids: 93.4

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39823.D	1	03/20/17	NJ	03/17/17	OP64224	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	18	12	7.0	ug/kg	
11104-28-2	Aroclor 1221	12 U	18	12	8.8	ug/kg	
11141-16-5	Aroclor 1232	12 U	18	12	8.8	ug/kg	
53469-21-9	Aroclor 1242	12 U	18	12	7.0	ug/kg	
12672-29-6	Aroclor 1248	12 U	18	12	7.0	ug/kg	
11097-69-1	Aroclor 1254	12 U	18	12	7.0	ug/kg	
11096-82-5	Aroclor 1260	12 U	18	12	7.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	96%		44-126%
2051-24-3	Decachlorobiphenyl	96%		41-145%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SB13-SO-27

Lab Sample ID: FA41805-17

Matrix: SO - Soil

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 93.4

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4940	51	13	2.2	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Antimony ^a	0.079 J	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Arsenic ^a	3.1	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Barium	112	10	5.1	1.0	mg/kg	200	03/21/17	03/23/17 DM	SW846 6020A	³ SW846 3050B ⁵
Beryllium ^a	0.25 J	0.51	0.25	0.055	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Cadmium ^a	0.25 U	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Calcium	142000	1000	510	73	mg/kg	200	03/21/17	03/23/17 DM	SW846 6020A	³ SW846 3050B ⁵
Chromium ^a	4.2	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Cobalt ^a	2.2	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Copper ^a	1.4	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Iron ^a	4030	51	13	4.0	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Lead ^a	2.5	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Magnesium ^a	8300	51	25	2.6	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Manganese ^a	38.8	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Mercury	0.0065 J	0.041	0.016	0.0041	mg/kg	1	03/15/17	03/15/17 JL	SW846 7471B	¹ SW846 7471B ⁴
Nickel ^a	5.6	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Potassium ^a	673	51	25	3.3	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Selenium ^a	1.4	0.51	0.25	0.091	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Silver ^a	0.25 U	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Sodium ^a	638	51	25	2.4	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Thallium ^a	0.25 U	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Vanadium ^a	16.1	0.51	0.25	0.051	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵
Zinc ^a	9.7 J	0.51	0.25	0.15	mg/kg	10	03/21/17	03/22/17 DM	SW846 6020A	² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result >= DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS16-SO-28

Lab Sample ID: FA41805-18

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 99.3

Project: Far East Dump Site, Fort Bliss, TX

Run	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33964.D	1	03/08/17	EP	n/a	n/a	VY1344
Run #2							

Run	Initial Weight	Final Volume
Run #1	6.92 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	18 U J	36	18	7.2	ug/kg	
71-43-2	Benzene	1.4 U	3.6	1.4	0.88	ug/kg	
108-86-1	Bromobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
74-97-5	Bromochloromethane	1.4 U	3.6	1.4	1.1	ug/kg	
75-27-4	Bromodichloromethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-25-2	Bromoform	1.4 U	3.6	1.4	0.72	ug/kg	
78-93-3	2-Butanone (MEK)	11 U	18	11	5.3	ug/kg	
104-51-8	n-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
135-98-8	sec-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
98-06-6	tert-Butylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
75-15-0	Carbon Disulfide	1.4 U	3.6	1.4	0.72	ug/kg	
56-23-5	Carbon Tetrachloride	1.4 U	3.6	1.4	0.74	ug/kg	
108-90-7	Chlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
75-00-3	Chloroethane	2.5 U	3.6	2.5	1.4	ug/kg	
67-66-3	Chloroform	1.4 U	3.6	1.4	0.96	ug/kg	
95-49-8	o-Chlorotoluene	1.4 U	3.6	1.4	0.72	ug/kg	
106-43-4	p-Chlorotoluene	1.4 U	3.6	1.4	0.72	ug/kg	
124-48-1	Dibromochloromethane	1.4 U	3.6	1.4	0.72	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.5 U	3.6	2.5	1.4	ug/kg	
106-93-4	1,2-Dibromoethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-71-8	Dichlorodifluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.4 U	3.6	1.4	0.72	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.4 U	3.6	1.4	0.83	ug/kg	
75-34-3	1,1-Dichloroethane	1.4 U	3.6	1.4	1.3	ug/kg	
107-06-2	1,2-Dichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
75-35-4	1,1-Dichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.4 U	3.6	1.4	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
78-87-5	1,2-Dichloropropane	1.4 U	3.6	1.4	0.72	ug/kg	
142-28-9	1,3-Dichloropropane	1.4 U	3.6	1.4	0.72	ug/kg	
594-20-7	2,2-Dichloropropane	1.4 U	3.6	1.4	0.72	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FEIDS-SS16-SO-28
 Lab Sample ID: FA41805-18
 Matrix: SO - Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
 Date Received: 03/07/17
 Percent Solids: 99.3

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.4 U J	3.6	1.4	0.74	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.4 U	3.6	1.4	0.72	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.4 U	3.6	1.4	0.72	ug/kg	
100-41-4	Ethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
87-68-3	Hexachlorobutadiene	1.4 U	3.6	1.4	0.93	ug/kg	
591-78-6	2-Hexanone ^b	11 U	18	11	5.4	ug/kg	
98-82-8	Isopropylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
99-87-6	p-Isopropyltoluene	1.4 U	3.6	1.4	0.72	ug/kg	
74-83-9	Methyl Bromide	2.5 U	3.6	2.5	1.4	ug/kg	
74-87-3	Methyl Chloride	2.5 U	3.6	2.5	1.4	ug/kg	
74-95-3	Methylene Bromide	1.4 U	3.6	1.4	0.72	ug/kg	
75-09-2	Methylene Chloride	3.6 U	7.2	3.6	2.9	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIB) ^b	11 U	18	11	5.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.4 U	3.6	1.4	0.72	ug/kg	
91-20-3	Naphthalene	2.5 U	3.6	2.5	1.4	ug/kg	
103-65-1	n-Propylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
100-42-5	Styrene ^c	1.4 U	3.6	1.4	0.72	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.4 U	3.6	1.4	0.74	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
127-18-4	Tetrachloroethylene	1.4 U	3.6	1.4	0.92	ug/kg	
108-88-3	Toluene	1.4 U	3.6	1.4	0.72	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	3.6	2.5	1.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	3.6	2.5	0.72	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	3.6	1.4	0.72	ug/kg	
79-01-6	Trichloroethylene	1.4 U	3.6	1.4	0.72	ug/kg	
75-69-4	Trichlorofluoromethane	2.5 U	3.6	2.5	1.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.5 U	3.6	2.5	0.90	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.4 U	3.6	1.4	0.72	ug/kg	
108-05-4	Vinyl Acetate	14 U	18	14	12	ug/kg	
75-01-4	Vinyl Chloride	1.4 U	3.6	1.4	0.72	ug/kg	
	m,p-Xylene	2.9 U	7.2	2.9	0.79	ug/kg	
95-47-6	o-Xylene	1.4 U V	3.6	1.4	0.72	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		75-124%
17060-07-0	1,2-Dichloroethane-D4	117%		72-135%
2037-26-5	Toluene-D8	103%		75-126%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS16-SO-28

Lab Sample ID: FA41805-18

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 99.3

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

(b) Associated BS recovery outside control limits.

(c) Associated BS recovery outside DOD QSM control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

4.19

4

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS16-SO-28
 Lab Sample ID: FA41805-18
 Matrix: SO - Soil
 Method: SW846 8270D SW846 3550C
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
 Date Received: 03/07/17
 Percent Solids: 99.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052951.D	1	03/16/17	NG	03/14/17	OP64167	SX2243
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	340 U	840	340	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	34 U	170	34	19	ug/kg	
95-57-8	2-Chlorophenol	34 U	170	34	21	ug/kg	
120-83-2	2,4-Dichlorophenol	34 U	170	34	19	ug/kg	
105-67-9	2,4-Dimethylphenol	67 U	170	67	45	ug/kg	
51-28-5	2,4-Dinitrophenol	500 U	840	500	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	130 U	340	130	67	ug/kg	
95-48-7	2-Methylphenol	34 U	170	34	20	ug/kg	
	3&4-Methylphenol	67 U	170	67	28	ug/kg	
88-75-5	2-Nitrophenol	34 U	170	34	18	ug/kg	
100-02-7	4-Nitrophenol	340 U	840	340	170	ug/kg	
87-86-5	Pentachlorophenol	340 U	840	340	170	ug/kg	
108-95-2	Phenol	34 U	170	34	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	34 U	170	34	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	34 U	170	34	19	ug/kg	
83-32-9	Acenaphthene	34 U	170	34	18	ug/kg	
208-96-8	Acenaphthylene	34 U	170	34	17	ug/kg	
62-53-3	Aniline	67 U	170	67	36	ug/kg	
120-12-7	Anthracene	34 U	170	34	19	ug/kg	
92-87-5	Benzidine	840 U	1700	840	340	ug/kg	
56-55-3	Benzo(a)anthracene	34 U	170	34	17	ug/kg	
50-32-8	Benzo(a)pyrene	34 U	170	34	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	34 U	170	34	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	34 U	170	34	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	34 U	170	34	22	ug/kg	
100-51-6	Benzyl Alcohol	34 U	170	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	34 U	170	34	17	ug/kg	
85-68-7	Butyl benzyl phthalate	67 U	170	67	34	ug/kg	
86-74-8	Carbazole	34 U	170	34	23	ug/kg	
106-47-8	4-Chloroaniline	67 U	170	67	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	34 U	170	34	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	34 U	170	34	19	ug/kg	

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SS16-SO-28	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-18	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	99.3
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	34 U	170	34	21	ug/kg	
91-58-7	2-Chloronaphthalene	34 U	170	34	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	34 U	170	34	17	ug/kg	
218-01-9	Chrysene	34 U	170	34	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	34 U	170	34	21	ug/kg	
132-64-9	Dibenzofuran	34 U	170	34	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	67 U	170	67	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	67 U	170	67	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	67 U	170	67	22	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	67 U	170	67	40	ug/kg	
84-66-2	Diethyl Phthalate	120 U	340	120	34	ug/kg	
131-11-3	Dimethyl Phthalate	67 U	170	67	34	ug/kg	
117-84-0	Di-n-octyl Phthalate	67 U	170	67	34	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	340	120	67	ug/kg	
121-14-2	2,4-Dinitrotoluene	34 U	170	34	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	34 U	170	34	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	34 U	170	34	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	340	120	34	ug/kg	
206-44-0	Fluoranthene	34 U	170	34	17	ug/kg	
86-73-7	Fluorene	34 U	170	34	18	ug/kg	
118-74-1	Hexachlorobenzene	34 U	170	34	17	ug/kg	
87-68-3	Hexachlorobutadiene	67 U	170	67	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	67 U	170	67	34	ug/kg	
67-72-1	Hexachloroethane	67 U	170	67	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	34 U	170	34	20	ug/kg	
78-59-1	Isophorone	34 U	170	34	17	ug/kg	
90-12-0	1-Methylnaphthalene	34 U	170	34	17	ug/kg	
91-57-6	2-Methylnaphthalene	34 U	170	34	17	ug/kg	
91-20-3	Naphthalene	34 U	170	34	17	ug/kg	
88-74-4	2-Nitroaniline	67 U	170	67	39	ug/kg	
99-09-2	3-Nitroaniline	67 U	170	67	20	ug/kg	
100-01-6	4-Nitroaniline	67 U	170	67	48	ug/kg	
98-95-3	Nitrobenzene	34 U	170	34	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	67 U	170	67	28	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	34 U	170	34	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	67 U	170	67	18	ug/kg	
85-01-8	Phenanthrene	34 U	170	34	17	ug/kg	
129-00-0	Pyrene	34 U	170	34	19	ug/kg	
110-86-1	Pyridine ^a	120 U J	340	120	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	34 U	170	34	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS16-SO-28	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-18	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	99.3
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	85%		40-102%
4165-62-2	Phenol-d5	128% ^b		41-100%
118-79-6	2,4,6-Tribromophenol	79%		42-108%
4165-60-0	Nitrobenzene-d5	82%		40-105%
321-60-8	2-Fluorobiphenyl	82%		43-107%
1718-51-0	Terphenyl-d14	81%		45-119%

(a) Associated CCV outside control limits.

(b) Outside control limits.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS16-SO-28

Lab Sample ID: FA41805-18

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8151A SW846 3546

Percent Solids: 99.3

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053886.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC053999.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2	14.8 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	16 U J	33	16	8.4	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.6 U	3.3	1.6	0.92	ug/kg	
93-76-5	2,4,5-T	1.6 U	3.3	1.6	0.84	ug/kg	
1918-00-9	Dicamba	1.6 U	3.3	1.6	0.77	ug/kg	
88-85-7	Dinoseb	33 U	82	33	16	ug/kg	
75-99-0	Dalapon	65 U	160	65	33	ug/kg	
120-36-5	Dichloroprop	16 U	33	16	8.1	ug/kg	
94-82-6	2,4-DB	16 U	33	16	8.5	ug/kg	
93-65-2	MCP	1600 U	3300	1600	840	ug/kg	
94-74-6	MCPA	2500 U	3300	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.6 U	3.3	1.6	0.69	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	17% ^b	82%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed by re-extraction and reanalysis.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

4.19

4

4

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS16-SO-28

Lab Sample ID: FA41805-18

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 99.3

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82367.D	1	03/24/17	MV	03/17/17	OP64223	GKK2638
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.82 U	1.6	0.82	0.52	ug/kg	
319-84-6	alpha-BHC	0.82 U	1.6	0.82	0.52	ug/kg	
319-85-7	beta-BHC	0.82 U	1.6	0.82	0.48	ug/kg	
319-86-8	delta-BHC	0.82 U	1.6	0.82	0.47	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.82 U	1.6	0.82	0.49	ug/kg	
5103-71-9	alpha-Chlordane	0.82 U	1.6	0.82	0.51	ug/kg	
5103-74-2	gamma-Chlordane	0.82 U	1.6	0.82	0.47	ug/kg	
60-57-1	Dieldrin	0.82 U	1.6	0.82	0.46	ug/kg	
72-54-8	4,4'-DDD	0.82 U	3.3	0.82	0.45	ug/kg	
72-55-9	4,4'-DDE	0.82 U	3.3	0.82	0.60	ug/kg	
50-29-3	4,4'-DDT	0.82 U	3.3	0.82	0.50	ug/kg	
72-20-8	Endrin	1.6 U	3.3	1.6	0.83	ug/kg	
1031-07-8	Endosulfan sulfate	0.82 U	3.3	0.82	0.43	ug/kg	
7421-93-4	Endrin aldehyde	0.82 U	3.3	0.82	0.38	ug/kg	
53494-70-5	Endrin ketone	0.82 U	3.3	0.82	0.52	ug/kg	
959-98-8	Endosulfan-I	0.82 U	1.6	0.82	0.38	ug/kg	
33213-65-9	Endosulfan-II	0.82 U	1.6	0.82	0.39	ug/kg	
76-44-8	Heptachlor	0.82 U	1.6	0.82	0.49	ug/kg	
1024-57-3	Heptachlor epoxide	0.82 U	1.6	0.82	0.48	ug/kg	
72-43-5	Methoxychlor	1.6 U	3.3	1.6	0.66	ug/kg	
8001-35-2	Toxaphene	41 U	82	41	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%		50-122%
2051-24-3	Decachlorobiphenyl	121%		50-133%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS16-SO-28
 Lab Sample ID: FA41805-18
 Matrix: SO - Soil
 Method: SW846 8082A SW846 3550C
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17
 Date Received: 03/07/17
 Percent Solids: 99.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39824.D	1	03/20/17	NJ	03/17/17	OP64224	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	16	12	6.6	ug/kg	
11104-28-2	Aroclor 1221	12 U	16	12	8.2	ug/kg	
11141-16-5	Aroclor 1232	12 U	16	12	8.2	ug/kg	
53469-21-9	Aroclor 1242	12 U	16	12	6.6	ug/kg	
12672-29-6	Aroclor 1248	12 U	16	12	6.6	ug/kg	
11097-69-1	Aroclor 1254	12 U	16	12	6.6	ug/kg	
11096-82-5	Aroclor 1260	12 U	16	12	6.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		44-126%
2051-24-3	Decachlorobiphenyl	94%		41-145%

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS16-SO-28

Lab Sample ID: FA41805-18

Matrix: SO - Soil

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 99.3

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	2770	31	7.9	1.4	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Antimony ^a	0.077 J	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Arsenic ^a	1.5	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Barium ^a	21.2	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Beryllium ^a	0.20 J	0.31	0.16	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cadmium ^a	0.057 J	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Calcium ^a	1070	31	16	2.3	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Chromium ^a	3.8	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Cobalt ^a	1.2	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Copper ^a	2.0	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Iron ^a	4410	31	7.9	2.5	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Lead ^a	4.0	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Magnesium ^a	732	31	16	1.6	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Manganese ^a	49.9	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Mercury	0.0096 J	0.038	0.015	0.0038	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ³
Nickel ^a	2.2	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Potassium ^a	739	31	16	2.1	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Selenium ^a	1.4	0.31	0.16	0.057	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Silver ^a	0.16 U	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Sodium ^a	14.2 J	31	16	1.5	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Thallium ^a	0.032 J	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Vanadium ^a	7.9	0.31	0.16	0.031	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴
Zinc ^a	11.0 J	0.31	0.16	0.091	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁴

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Prep QC Batch: MP31789

(4) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS14-SO-29

Lab Sample ID: FA41805-19

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 97.1

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y33965.D	1	03/08/17	EP	n/a	n/a	VY1344
Run #2							

	Initial Weight	Final Volume
Run #1	7.66 g	5.0 ml
Run #2		

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
67-64-1	Acetone	16 U J	33	16	6.5	ug/kg	
71-43-2	Benzene	1.3 U	3.3	1.3	0.80	ug/kg	
108-86-1	Bromobenzene	1.3 U	3.3	1.3	0.65	ug/kg	
74-97-5	Bromochloromethane	1.3 U	3.3	1.3	0.97	ug/kg	
75-27-4	Bromodichloromethane	1.3 U	3.3	1.3	0.65	ug/kg	
75-25-2	Bromoform	1.3 U	3.3	1.3	0.65	ug/kg	
78-93-3	2-Butanone (MEK)	9.8 U	16	9.8	4.7	ug/kg	
104-51-8	n-Butylbenzene	1.3 U	3.3	1.3	0.65	ug/kg	
135-98-8	sec-Butylbenzene	1.3 U	3.3	1.3	0.65	ug/kg	
98-06-6	tert-Butylbenzene	1.3 U	3.3	1.3	0.65	ug/kg	
75-15-0	Carbon Disulfide	1.3 U	3.3	1.3	0.65	ug/kg	
56-23-5	Carbon Tetrachloride	1.3 U	3.3	1.3	0.67	ug/kg	
108-90-7	Chlorobenzene	1.3 U	3.3	1.3	0.65	ug/kg	
75-00-3	Chloroethane	2.3 U	3.3	2.3	1.3	ug/kg	
67-66-3	Chloroform	1.3 U	3.3	1.3	0.87	ug/kg	
95-49-8	o-Chlorotoluene	1.3 U	3.3	1.3	0.65	ug/kg	
106-43-4	p-Chlorotoluene	1.3 U	3.3	1.3	0.65	ug/kg	
124-48-1	Dibromochloromethane	1.3 U	3.3	1.3	0.65	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	2.3 U	3.3	2.3	1.3	ug/kg	
106-93-4	1,2-Dibromoethane	1.3 U	3.3	1.3	0.65	ug/kg	
75-71-8	Dichlorodifluoromethane	2.3 U	3.3	2.3	1.3	ug/kg	
95-50-1	1,2-Dichlorobenzene	1.3 U	3.3	1.3	0.65	ug/kg	
541-73-1	1,3-Dichlorobenzene	1.3 U	3.3	1.3	0.65	ug/kg	
106-46-7	1,4-Dichlorobenzene	1.3 U	3.3	1.3	0.75	ug/kg	
75-34-3	1,1-Dichloroethane	1.3 U	3.3	1.3	1.2	ug/kg	
107-06-2	1,2-Dichloroethane	1.3 U	3.3	1.3	0.65	ug/kg	
75-35-4	1,1-Dichloroethylene	1.3 U	3.3	1.3	0.65	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.3 U	3.3	1.3	0.90	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.3 U	3.3	1.3	0.65	ug/kg	
78-87-5	1,2-Dichloropropane	1.3 U	3.3	1.3	0.65	ug/kg	
142-28-9	1,3-Dichloropropane	1.3 U	3.3	1.3	0.65	ug/kg	
594-20-7	2,2-Dichloropropane	1.3 U	3.3	1.3	0.65	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 2 of 3

Client Sample ID: FEIDS-SS14-SO-29
 Lab Sample ID: FA41805-19
 Matrix: SO - Soil
 Method: SW846 8260B
 Project: Far East Dump Site, Fort Bliss, TX

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 97.1

VOA 8260 List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
563-58-6	1,1-Dichloropropene	1.3 U J	3.3	1.3	0.67	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.3 U	3.3	1.3	0.65	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.3 U	3.3	1.3	0.65	ug/kg	
100-41-4	Ethylbenzene	1.3 U	3.3	1.3	0.65	ug/kg	
87-68-3	Hexachlorobutadiene	1.3 U	3.3	1.3	0.84	ug/kg	
591-78-6	2-Hexanone ^b	9.8 U	16	9.8	4.9	ug/kg	
98-82-8	Isopropylbenzene	1.3 U	3.3	1.3	0.65	ug/kg	
99-87-6	p-Isopropyltoluene	1.3 U	3.3	1.3	0.65	ug/kg	
74-83-9	Methyl Bromide	2.3 U	3.3	2.3	1.3	ug/kg	
74-87-3	Methyl Chloride	2.3 U	3.3	2.3	1.3	ug/kg	
74-95-3	Methylene Bromide	1.3 U	3.3	1.3	0.65	ug/kg	
75-09-2	Methylene Chloride	3.3 U	6.5	3.3	2.6	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIB) ^b	9.8 U	16	9.8	4.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	1.3 U	3.3	1.3	0.65	ug/kg	
91-20-3	Naphthalene	2.3 U	3.3	2.3	1.3	ug/kg	
103-65-1	n-Propylbenzene	1.3 U	3.3	1.3	0.65	ug/kg	
100-42-5	Styrene ^c	1.3 U	3.3	1.3	0.65	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	1.3 U	3.3	1.3	0.67	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.3 U	3.3	1.3	0.65	ug/kg	
127-18-4	Tetrachloroethylene	1.3 U	3.3	1.3	0.84	ug/kg	
108-88-3	Toluene	1.3 U	3.3	1.3	0.65	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	2.3 U	3.3	2.3	0.91	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	2.3 U	3.3	2.3	0.65	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.3 U	3.3	1.3	0.65	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.3 U	3.3	1.3	0.65	ug/kg	
79-01-6	Trichloroethylene	1.3 U	3.3	1.3	0.65	ug/kg	
75-69-4	Trichlorofluoromethane	2.3 U	3.3	2.3	1.3	ug/kg	
96-18-4	1,2,3-Trichloropropane	2.3 U	3.3	2.3	0.82	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1.3 U	3.3	1.3	0.65	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	1.3 U	3.3	1.3	0.65	ug/kg	
108-05-4	Vinyl Acetate	13 U	16	13	11	ug/kg	
75-01-4	Vinyl Chloride	1.3 U	3.3	1.3	0.65	ug/kg	
	m,p-Xylene	2.3 U	6.5	2.6	0.72	ug/kg	
95-47-6	o-Xylene	1.3 U	3.3	1.3	0.65	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		75-124%
17060-07-0	1,2-Dichloroethane-D4	118%		72-135%
2037-26-5	Toluene-D8	103%		75-126%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID: FEIDS-SS14-SO-29

Lab Sample ID: FA41805-19

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8260B

Percent Solids: 97.1

Project: Far East Dump Site, Fort Bliss, TX

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		71-133%

(a) Pre-weighed vials were altered in the field; sample weights are estimated.

(b) Associated BS recovery outside control limits.

(c) Associated BS recovery outside DOD QSM control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 3

Client Sample ID: FEIDS-SS14-SO-29

Lab Sample ID: FA41805-19

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8270D SW846 3550C

Percent Solids: 97.1

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X053073.D	1	03/24/17	NG	03/16/17	OP64194	SX2247
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
65-85-0	Benzoic Acid	340 U	860	340	170	ug/kg	
59-50-7	4-Chloro-3-methyl Phenol	34 U	170	34	19	ug/kg	
95-57-8	2-Chlorophenol	34 U	170	34	21	ug/kg	
120-83-2	2,4-Dichlorophenol	34 U	170	34	20	ug/kg	
105-67-9	2,4-Dimethylphenol	68 U	170	68	46	ug/kg	
51-28-5	2,4-Dinitrophenol	510 U	860	510	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	140 U	340	140	68	ug/kg	
95-48-7	2-Methylphenol	34 U	170	34	21	ug/kg	
	3&4-Methylphenol	68 U	170	68	28	ug/kg	
88-75-5	2-Nitrophenol	34 U	170	34	19	ug/kg	
100-02-7	4-Nitrophenol	340 U	860	340	170	ug/kg	
87-86-5	Pentachlorophenol	340 U	860	340	170	ug/kg	
108-95-2	Phenol	34 U	170	34	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	34 U	170	34	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	34 U	170	34	20	ug/kg	
83-32-9	Acenaphthene	34 U	170	34	18	ug/kg	
208-96-8	Acenaphthylene	34 U	170	34	17	ug/kg	
62-53-3	Aniline	68 U	170	68	37	ug/kg	
120-12-7	Anthracene	34 U	170	34	19	ug/kg	
92-87-5	Benzidine ^a	860 U J	1700	860	340	ug/kg	
56-55-3	Benzo(a)anthracene	34 U	170	34	17	ug/kg	
50-32-8	Benzo(a)pyrene	34 U	170	34	20	ug/kg	
205-99-2	Benzo(b)fluoranthene	34 U	170	34	19	ug/kg	
191-24-2	Benzo(g,h,i)perylene	34 U	170	34	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	34 U	170	34	22	ug/kg	
100-51-6	Benzyl Alcohol	34 U	170	34	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	34 U	170	34	18	ug/kg	
85-68-7	Butyl benzyl phthalate	68 U	170	68	34	ug/kg	
86-74-8	Carbazole	34 U	170	34	24	ug/kg	
106-47-8	4-Chloroaniline ^a	68 U J	170	68	43	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	34 U	170	34	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	34 U	170	34	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	FEIDS-SS14-SO-29	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-19	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	97.1
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	34 U	170	34	22	ug/kg	
91-58-7	2-Chloronaphthalene	34 U	170	34	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	34 U	170	34	17	ug/kg	
218-01-9	Chrysene	34 U	170	34	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	34 U	170	34	21	ug/kg	
132-64-9	Dibenzofuran	34 U	170	34	17	ug/kg	
95-50-1	1,2-Dichlorobenzene	68 U	170	68	17	ug/kg	
541-73-1	1,3-Dichlorobenzene	68 U	170	68	18	ug/kg	
106-46-7	1,4-Dichlorobenzene	68 U	170	68	23	ug/kg	
91-94-1	3,3'-Dichlorobenzidine ^a	68 U J	170	68	41	ug/kg	
84-66-2	Diethyl Phthalate	120 U	340	120	34	ug/kg	
131-11-3	Dimethyl Phthalate	68 U	170	68	34	ug/kg	
117-84-0	Di-n-octyl Phthalate	68 U	170	68	34	ug/kg	
84-74-2	Di-n-butyl Phthalate	120 U	340	120	68	ug/kg	
121-14-2	2,4-Dinitrotoluene	34 U	170	34	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	34 U	170	34	22	ug/kg	
122-66-7	1,2-Diphenylhydrazine	34 U	170	34	17	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	120 U	340	120	34	ug/kg	
206-44-0	Fluoranthene	34 U	170	34	17	ug/kg	
86-73-7	Fluorene	34 U	170	34	18	ug/kg	
118-74-1	Hexachlorobenzene	34 U	170	34	17	ug/kg	
87-68-3	Hexachlorohutadiene	68 U	170	68	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	68 U	170	68	34	ug/kg	
67-72-1	Hexachloroethane	68 U	170	68	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	34 U	170	34	21	ug/kg	
78-59-1	Isophorone	34 U	170	34	17	ug/kg	
90-12-0	1-Methylnaphthalene	34 U	170	34	17	ug/kg	
91-57-6	2-Methylnaphthalene	34 U	170	34	17	ug/kg	
91-20-3	Naphthalene	34 U	170	34	17	ug/kg	
88-74-4	2-Nitroaniline	68 U J	170	68	40	ug/kg	
99-09-2	3-Nitroaniline ^a	68 U J	170	68	20	ug/kg	
100-01-6	4-Nitroaniline	68 U	170	68	49	ug/kg	
98-95-3	Nitrobenzene	34 U	170	34	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	68 U	170	68	29	ug/kg	
621-64-7	N-Nitrosodi-n-propylamine	34 U	170	34	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	68 U	170	68	18	ug/kg	
85-01-8	Phenanthrene	34 U	170	34	17	ug/kg	
129-00-0	Pyrene	34 U	170	34	20	ug/kg	
110-86-1	Pyridine	120 U	340	120	68	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	34 U	170	34	20	ug/kg	

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	FEIDS-SS14-SO-29	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-19	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	97.1
Method:	SW846 8270D SW846 3550C		
Project:	Far East Dump Site, Fort Bliss, TX		

ABN Full List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	76%		40-102%
4165-62-2	Phenol-d5	77%		41-100%
118-79-6	2,4,6-Tribromophenol	85%		42-108%
4165-60-0	Nitrobenzene-d5	82%		40-105%
321-60-8	2-Fluorobiphenyl	78%		43-107%
1718-51-0	Terphenyl-d14	79%		45-119%

(a) Associated ICV outside control limits.

U = Not detected LOD = Limit of Detection
LOQ = Limit of Quantitation DL = Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID:	FEIDS-SS14-SO-29	Date Sampled:	03/06/17
Lab Sample ID:	FA41805-19	Date Received:	03/07/17
Matrix:	SO - Soil	Percent Solids:	97.1
Method:	SW846 8151A SW846 3546		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CC053887.D	1	03/17/17	MG	03/15/17	OP64183	GCC1113
Run #2 ^a	CC054000.D	1	03/24/17	NJ	03/23/17	OP64312	GCC1116

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2	14.5 g	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	17 U J	34	17	8.7	ug/kg	
93-72-1	2,4,5-TP (Silvex)	1.7 U	3.4	1.7	0.95	ug/kg	
93-76-5	2,4,5-T	1.7 U	3.4	1.7	0.87	ug/kg	
1918-00-9	Dicamba	1.7 U	3.4	1.7	0.79	ug/kg	
88-85-7	Dinoseb	34 U	85	34	17	ug/kg	
75-99-0	Dalapon	68 U	170	68	34	ug/kg	
120-36-5	Dichloroprop	17 U	34	17	8.4	ug/kg	
94-82-6	2,4-DB	17 U	34	17	8.8	ug/kg	
93-65-2	MCP	1700 U	3400	1700	870	ug/kg	
94-74-6	MCPA	2500 U	3400	2500	1600	ug/kg	
87-86-5	Pentachlorophenol	1.7 U	3.4	1.7	0.71	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	10% ^b	68%	31-132%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed ND by re-extraction and reanalysis. Beyond hold time.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS14-SO-29

Lab Sample ID: FA41805-19

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8081B SW846 3546

Percent Solids: 97.1

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82368.D	1	03/24/17	MV	03/17/17	OP64223	GKK2638
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.86 U	1.7	0.86	0.54	ug/kg	
319-84-6	alpha-BHC	0.86 U	1.7	0.86	0.54	ug/kg	
319-85-7	beta-BHC	0.86 U	1.7	0.86	0.50	ug/kg	
319-86-8	delta-BHC	0.86 U	1.7	0.86	0.49	ug/kg	
58-89-9	gamma-BHC (Lindane)	0.86 U	1.7	0.86	0.51	ug/kg	
5103-71-9	alpha-Chlordane	0.86 U	1.7	0.86	0.54	ug/kg	
5103-74-2	gamma-Chlordane	0.86 U	1.7	0.86	0.49	ug/kg	
60-57-1	Dieldrin	0.86 U	1.7	0.86	0.48	ug/kg	
72-54-8	4,4'-DDD	0.86 U	3.4	0.86	0.47	ug/kg	
72-55-9	4,4'-DDE	0.86 U	3.4	0.86	0.62	ug/kg	
50-29-3	4,4'-DDT	0.86 U	3.4	0.86	0.53	ug/kg	
72-20-8	Endrin	1.7 U	3.4	1.7	0.87	ug/kg	
1031-07-8	Endosulfan sulfate	0.86 U	3.4	0.86	0.45	ug/kg	
7421-93-4	Endrin aldehyde	0.86 U	3.4	0.86	0.40	ug/kg	
53494-70-5	Endrin ketone	0.86 U	3.4	0.86	0.54	ug/kg	
959-98-8	Endosulfan-I	0.86 U	1.7	0.86	0.39	ug/kg	
33213-65-9	Endosulfan-II	0.86 U	1.7	0.86	0.41	ug/kg	
76-44-8	Heptachlor	0.86 U	1.7	0.86	0.51	ug/kg	
1024-57-3	Heptachlor epoxide	0.86 U	1.7	0.86	0.50	ug/kg	
72-43-5	Methoxychlor	1.7 U	3.4	1.7	0.69	ug/kg	
8001-35-2	Toxaphene	43 U	86	43	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		50-122%
2051-24-3	Decachlorobiphenyl	120%		50-133%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS14-SO-29

Lab Sample ID: FA41805-19

Date Sampled: 03/06/17

Matrix: SO - Soil

Date Received: 03/07/17

Method: SW846 8082A SW846 3550C

Percent Solids: 97.1

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39825.D	1	03/20/17	NJ	03/17/17	OP64224	GMM768
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	12 U	17	12	6.9	ug/kg	
11104-28-2	Aroclor 1221	12 U	17	12	8.6	ug/kg	
11141-16-5	Aroclor 1232	12 U	17	12	8.6	ug/kg	
53469-21-9	Aroclor 1242	12 U	17	12	6.9	ug/kg	
12672-29-6	Aroclor 1248	12 U	17	12	6.9	ug/kg	
11097-69-1	Aroclor 1254	12 U	17	12	6.9	ug/kg	
11096-82-5	Aroclor 1260	12 U	17	12	6.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		44-126%
2051-24-3	Decachlorobiphenyl	96%		41-145%

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-SS14-SO-29

Lab Sample ID: FA41805-19

Matrix: SO - Soil

Date Sampled: 03/06/17

Date Received: 03/07/17

Percent Solids: 97.1

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum ^a	4320	34	8.5	1.5	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Antimony ^a	0.076 J	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Arsenic ^a	2.3	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Barium ^a	54.4	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Beryllium ^a	0.21 J	0.34	0.17	0.037	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cadmium ^a	0.047 J	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Calcium	35100	340	170	25	mg/kg	100	03/21/17	03/23/17	DM	SW846 6020A ³ SW846 3050B ⁵
Chromium ^a	5.5	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Cobalt ^a	1.8	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Copper ^a	2.2	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Iron ^a	5500	34	8.5	2.7	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Lead ^a	3.5	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Magnesium ^a	1530	34	17	1.8	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Manganese ^a	56.9	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Mercury	0.0084 J	0.040	0.016	0.0040	mg/kg	1	03/15/17	03/15/17	JL	SW846 7471B ¹ SW846 7471B ⁴
Nickel ^a	3.9	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Potassium ^a	877	34	17	2.2	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Selenium ^a	1.9	0.34	0.17	0.061	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Silver ^a	0.17 U	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Sodium ^a	30.8 J	34	17	1.6	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Thallium ^a	0.047 J	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Vanadium ^a	10.0	0.34	0.17	0.034	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵
Zinc ^a	13.1 J	0.34	0.17	0.099	mg/kg	10	03/21/17	03/22/17	DM	SW846 6020A ² SW846 3050B ⁵

(1) Instrument QC Batch: MA13896

(2) Instrument QC Batch: MA13916

(3) Instrument QC Batch: MA13922

(4) Prep QC Batch: MP31789

(5) Prep QC Batch: MP31820

(a) Sample dilution required due to difficult matrix.

LOQ = Limit of Quantitation

DL = Detection Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result >= DL (MDL) but < LOQ

(b) (6)

SGS

ACCUTEST
FA41805



NELAP CERTIFICATE NUMBER: 01955
DOD ELAP CERTIFICATE NUMBER: L14-243

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 03/21/2017

GCAL Report 217031024



Project FA41805X Ft. Bliss

Deliver To

Andrea Colby
SGS
4405 Vineyard Rd. C
Orlando, FL 32811
386-615-8479

Additional Recipients

NONE



Case Narrative

Client: SGS - Orlando **Report:** 217031024

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found for the analyzed sample(s).



1D
ORGANICS ANALYSIS DATA SHEET

Report No: 217031024	Client Sample ID: FEIDS-SB3-SO-13	
Collect Date: 03/06/17 Time: 0855	GCAL Sample ID: 21703102401	
Matrix: Solid % Moisture: 5.5	Instrument ID: GCS20A	
Sample Amt: 10.2 g	Lab File ID: 2170320/sv20a007	
Injection Vol.: 1.0 (µL)	GC Column: DB-5MS-30M ID .25 (mm)	
Prep Final Vol.: 10000 (µL)	Dilution Factor: 1 Analyst: MEF2	
Prep Date: 03/17/17	Analysis Date: 03/20/17 Time: 1119	
Prep Batch: 606473	Analytical Batch: 606684	
Prep Method: TX1005 PREP	Analytical Method: TX1005	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	33.2	U	4.51	33.2	51.9
GCSV-05-03	>C28-C35	33.2	U	4.51	33.2	51.9
GCSV-05-01	C6-C12	14.5	U	4.62	14.5	51.9
GCSV-05-04	TOTAL TPH (C6-C35)	33.2	U	4.51	33.2	51.9

FORM I ORG-1

GCAL Report#: 217031024

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB4-SO-14</u>	
Collect Date: <u>03/06/17</u> Time: <u>0915</u>	GCAL Sample ID: <u>21703102402</u>	
Matrix: <u>Solid</u> % Moisture: <u>6.4</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10.3</u> g	Lab File ID: <u>2170314/sv20a047</u>	
Injection Vol.: <u>1.0</u> (μ L)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (μ L)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/12/17</u>	Analysis Date: <u>03/15/17</u> Time: <u>1440</u>	
Prep Batch: <u>606081</u>	Analytical Batch: <u>606362</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	33.2	U	4.51	33.2	51.8
GCSV-05-03	>C28-C35	33.2	U	4.51	33.2	51.8
GCSV-05-01	C6-C12	14.5	U	4.61	14.5	51.8
GCSV-05-04	TOTAL TPH (C6-C35)	33.2	U	4.51	33.2	51.8

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

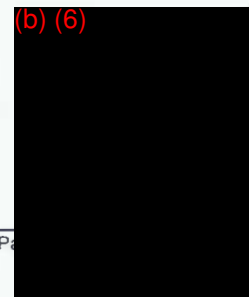
Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB5-SO-15</u>	
Collect Date: <u>03/06/17</u> Time: <u>0915</u>	GCAL Sample ID: <u>21703102403</u>	
Matrix: <u>Solid</u> % Moisture: <u>6.5</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10.5</u> g	Lab File ID: <u>2170314/sv20a050</u>	
Injection Vol.: <u>1.0</u> (μ L)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (μ L)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/12/17</u>	Analysis Date: <u>03/15/17</u> Time: <u>1639</u>	
Prep Batch: <u>606081</u>	Analytical Batch: <u>606362</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	32.6	U	4.43	32.6	50.9
GCSV-05-03	>C28-C35	32.6	U	4.43	32.6	50.9
GCSV-05-01	C6-C12	14.3	U	4.53	14.3	50.9
GCSV-05-04	TOTAL TPH (C6-C35)	32.6	U	4.43	32.6	50.9

FORM I ORG-1

GCAL Report#: 217031024



1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB6-SO-16</u>	
Collect Date: <u>03/06/17</u> Time: <u>1015</u>	GCAL Sample ID: <u>21703102404</u>	
Matrix: <u>Solid</u> % Moisture: <u>4.9</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10</u> g	Lab File ID: <u>2170314/sv20a051</u>	
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/12/17</u>	Analysis Date: <u>03/15/17</u> Time: <u>1718</u>	
Prep Batch: <u>606081</u>	Analytical Batch: <u>606362</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	33.6	U	4.57	33.6	52.6
GCSV-05-03	>C28-C35	33.6	U	4.57	33.6	52.6
GCSV-05-01	C6-C12	14.7	U	4.68	14.7	52.6
GCSV-05-04	TOTAL TPH (C6-C35)	33.6	U	4.57	33.6	52.6

FORM I ORG-1

GCAL Report#: 217031024

Pa



1D
ORGANICS ANALYSIS DATA SHEET

Report No: 217031024	Client Sample ID: FEIDS-SB7-SO-17	
Collect Date: 03/06/17 Time: 1050	GCAL Sample ID: 21703102405	
Matrix: Solid % Moisture: 7.3	Instrument ID: GCS20A	
Sample Amt: 10 g	Lab File ID: 2170314/sv20a052	
Injection Vol.: 1.0 (µL)	GC Column: DB-5MS-30M ID .25 (mm)	
Prep Final Vol.: 10000 (µL)	Dilution Factor: 1 Analyst: MEF2	
Prep Date: 03/12/17	Analysis Date: 03/15/17 Time: 1758	
Prep Batch: 606081	Analytical Batch: 606362	
Prep Method: TX1005 PREP	Analytical Method: TX1005	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	34.5	U	4.69	34.5	53.9
GCSV-05-03	>C28-C35	34.5	U	4.69	34.5	53.9
GCSV-05-01	C6-C12	15.1	U	4.80	15.1	53.9
GCSV-05-04	TOTAL TPH (C6-C35)	34.5	U	4.69	34.5	53.9

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB8-SO-18</u>	
Collect Date: <u>03/06/17</u> Time: <u>1115</u>	GCAL Sample ID: <u>21703102406</u>	
Matrix: <u>Solid</u> % Moisture: <u>2.8</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10</u> g	Lab File ID: <u>2170320/sv20a010</u>	
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/17/17</u>	Analysis Date: <u>03/20/17</u> Time: <u>1258</u>	
Prep Batch: <u>606473</u>	Analytical Batch: <u>606684</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	32.9	U	4.48	32.9	51.4
GCSV-05-03	>C28-C35	32.9	U	4.48	32.9	51.4
GCSV-05-01	C6-C12	14.4	U	4.58	14.4	51.4
GCSV-05-04	TOTAL TPH (C6-C35)	32.9	U	4.48	32.9	51.4

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB9-SO-19</u>	
Collect Date: <u>03/06/17</u> Time: <u>1130</u>	GCAL Sample ID: <u>21703102407</u>	
Matrix: <u>Solid</u> % Moisture: <u>2.7</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10</u> g	Lab File ID: <u>2170314/sv20a054</u>	
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/12/17</u>	Analysis Date: <u>03/15/17</u> Time: <u>1916</u>	
Prep Batch: <u>606081</u>	Analytical Batch: <u>606362</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	32.9	U	4.47	32.9	51.4
GCSV-05-03	>C28-C35	32.9	U	4.47	32.9	51.4
GCSV-05-01	C6-C12	14.4	U	4.57	14.4	51.4
GCSV-05-04	TOTAL TPH (C6-C35)	32.9	U	4.47	32.9	51.4

FORM I ORG-1

GCAL Report#: 217031024

Page

10/03/2018

SGS

273 of 3834
ACCUTEST
FA41805

002814

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB10-SO-20</u>	
Collect Date: <u>03/06/17</u> Time: <u>1145</u>	GCAL Sample ID: <u>21703102408</u>	
Matrix: <u>Solid</u> % Moisture: <u>12.4</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10</u> g	Lab File ID: <u>2170314/sv20a055</u>	
Injection Vol.: <u>1.0</u> (μ L)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (μ L)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/12/17</u>	Analysis Date: <u>03/15/17</u> Time: <u>1954</u>	
Prep Batch: <u>606081</u>	Analytical Batch: <u>606362</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	36.5	U	4.97	36.5	57.1
GCSV-05-03	>C28-C35	36.5	U	4.97	36.5	57.1
GCSV-05-01	C6-C12	16.0	U	5.08	16.0	57.1
GCSV-05-04	TOTAL TPH (C6-C35)	36.5	U	4.97	36.5	57.1

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB11-SO-21</u>	
Collect Date: <u>03/06/17</u> Time: <u>1210</u>	GCAL Sample ID: <u>21703102409</u>	
Matrix: <u>Solid</u> % Moisture: <u>8.5</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10.3</u> g	Lab File ID: <u>2170320/sv20a011</u>	
Injection Vol.: <u>1.0</u> (μ L)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (μ L)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/17/17</u>	Analysis Date: <u>03/20/17</u> Time: <u>1336</u>	
Prep Batch: <u>606473</u>	Analytical Batch: <u>606684</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	34.0	U	4.62	34.0	53.1
GCSV-05-03	>C28-C35	34.0	U	4.62	34.0	53.1
GCSV-05-01	C6-C12	14.9	U	4.72	14.9	53.1
GCSV-05-04	TOTAL TPH (C6-C35)	34.0	U	4.62	34.0	53.1

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB11-SO-22</u>	
Collect Date: <u>03/06/17</u> Time: <u>1255</u>	GCAL Sample ID: <u>21703102410</u>	
Matrix: <u>Solid</u> % Moisture: <u>2.1</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10.3</u> g	Lab File ID: <u>2170320/sv20a012</u>	
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/17/17</u>	Analysis Date: <u>03/20/17</u> Time: <u>1411</u>	
Prep Batch: <u>606473</u>	Analytical Batch: <u>606684</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	31.7	U	4.31	31.7	49.6
GCSV-05-03	>C28-C35	31.7	U	4.31	31.7	49.6
GCSV-05-01	C6-C12	13.9	U	4.41	13.9	49.6
GCSV-05-04	TOTAL TPH (C6-C35)	31.7	U	4.31	31.7	49.6

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB12-SO-23</u>
Collect Date: <u>03/06/17</u> Time: <u>1255</u>	GCAL Sample ID: <u>21703102411</u>
Matrix: <u>Solid</u> % Moisture: <u>19.1</u>	Instrument ID: <u>GCS20A</u>
Sample Amt: <u>10</u> g	Lab File ID: <u>2170314/sv20a058</u>
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>
Prep Date: <u>03/12/17</u>	Analysis Date: <u>03/15/17</u> Time: <u>2137</u>
Prep Batch: <u>606081</u>	Analytical Batch: <u>606362</u>
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	39.5	U	5.37	39.5	61.8
GCSV-05-03	>C28-C35	39.5	U	5.37	39.5	61.8
GCSV-05-01	C6-C12	17.3	U	5.50	17.3	61.8
GCSV-05-04	TOTAL TPH (C6-C35)	39.5	U	5.37	39.5	61.8

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Report No: 217031024	Client Sample ID: FEIDS-SB13-SO-23	
Collect Date: 03/06/17 Time: 1325	GCAL Sample ID: 21703102412	
Matrix: Solid % Moisture: 21.4	Instrument ID: GCS20A	
Sample Amt: 10.5 g	Lab File ID: 2170314/sv20a060	
Injection Vol.: 1.0 (µL)	GC Column: DB-5MS-30M ID .25 (mm)	
Prep Final Vol.: 10000 (µL)	Dilution Factor: 1 Analyst: MEF2	
Prep Date: 03/12/17	Analysis Date: 03/15/17 Time: 2241	
Prep Batch: 606081	Analytical Batch: 606362	
Prep Method: TX1005 PREP	Analytical Method: TX1005	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	38.8	U	5.27	38.8	60.6
GCSV-05-03	>C28-C35	38.8	U	5.27	38.8	60.6
GCSV-05-01	C6-C12	17.0	U	5.39	17.0	60.6
GCSV-05-04	TOTAL TPH (C6-C35)	38.8	U	5.27	38.8	60.6

FORM I ORG-1

GCAL Report#: 217031024

(b) (6)

SGS

306 of 3834
ACCUTEST
FA41805

10/03/2018

002819

1D
ORGANICS ANALYSIS DATA SHEET

Report No: 217031024	Client Sample ID: FEIDS-SB14-SO-24	
Collect Date: 03/06/17 Time: 1410	GCAL Sample ID: 21703102415	
Matrix: Solid % Moisture: 1.2	Instrument ID: GCS20A	
Sample Amt: 10 g	Lab File ID: 2170314/sv20a063	
Injection Vol.: 1.0 (µL)	GC Column: DB-5MS-30M ID .25 (mm)	
Prep Final Vol.: 10000 (µL)	Dilution Factor: 1 Analyst: MEF2	
Prep Date: 03/12/17	Analysis Date: 03/16/17 Time: 0020	
Prep Batch: 606081	Analytical Batch: 606362	
Prep Method: TX1005 PREP	Analytical Method: TX1005	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	32.4	U	4.40	32.4	50.6
GCSV-05-03	>C28-C35	32.4	U	4.40	32.4	50.6
GCSV-05-01	C6-C12	14.2	U	4.51	14.2	50.6
GCSV-05-04	TOTAL TPH (C6-C35)	32.4	U	4.40	32.4	50.6

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB12-SO-25</u>	
Collect Date: <u>03/06/17</u> Time: <u>1420</u>	GCAL Sample ID: <u>21703102416</u>	
Matrix: <u>Solid</u> % Moisture: <u>12.3</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10</u> g	Lab File ID: <u>2170314/sv20a064</u>	
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/12/17</u>	Analysis Date: <u>03/16/17</u> Time: <u>0057</u>	
Prep Batch: <u>606081</u>	Analytical Batch: <u>606362</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	36.5	U	4.96	36.5	57.0
GCSV-05-03	>C28-C35	36.5	U	4.96	36.5	57.0
GCSV-05-01	C6-C12	16.0	U	5.08	16.0	57.0
GCSV-05-04	TOTAL TPH (C6-C35)	36.5	U	4.96	36.5	57.0

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No:	217031024	Client Sample ID:	FEIDS-SB15-SO-26
Collect Date:	03/06/17 Time: 1510	GCAL Sample ID:	21703102417
Matrix:	Solid % Moisture: 2.0	Instrument ID:	GCS20A
Sample Amt:	10.3 g	Lab File ID:	2170320/sv20a013
Injection Vol.:	1.0 (µL)	GC Column:	DB-5MS-30M ID .25 (mm)
Prep Final Vol.:	10000 (µL)	Dilution Factor:	1 Analyst: MEF2
Prep Date:	03/17/17	Analysis Date:	03/20/17 Time: 1617
Prep Batch:	606473	Analytical Batch:	606684
Prep Method:	TX1005 PREP	Analytical Method:	TX1005

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	31.7	U	4.31	31.7	49.5
GCSV-05-03	>C28-C35	31.7	U	4.31	31.7	49.5
GCSV-05-01	C6-C12	13.9	U	4.41	13.9	49.5
GCSV-05-04	TOTAL TPH (C6-C35)	31.7	U	4.31	31.7	49.5

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: 217031024	Client Sample ID: FEIDS-SB13-SO-27	
Collect Date: 03/06/17 Time: 1525	GCAL Sample ID: 21703102418	
Matrix: Solid % Moisture: 7.9	Instrument ID: GCS20A	
Sample Amt: 10.1 g	Lab File ID: 2170320/sv20a014	
Injection Vol.: 1.0 (µL)	GC Column: DB-5MS-30M ID .25 (mm)	
Prep Final Vol.: 10000 (µL)	Dilution Factor: 1 Analyst: MEF2	
Prep Date: 03/17/17	Analysis Date: 03/20/17 Time: 1655	
Prep Batch: 606473	Analytical Batch: 606684	
Prep Method: TX1005 PREP	Analytical Method: TX1005	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	34.4	U	4.67	34.4	53.7
GCSV-05-03	>C28-C35	34.4	U	4.67	34.4	53.7
GCSV-05-01	C6-C12	15.0	U	4.78	15.0	53.7
GCSV-05-04	TOTAL TPH (C6-C35)	34.4	U	4.67	34.4	53.7

FORM I ORG-1

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB16-SO-28</u>
Collect Date: <u>03/06/17</u> Time: <u>1550</u>	GCAL Sample ID: <u>21703102419</u>
Matrix: <u>Solid</u> % Moisture: <u>0.9</u>	Instrument ID: <u>GCS20A</u>
Sample Amt: <u>10.3</u> g	Lab File ID: <u>2170314/sv20a067</u>
Injection Vol.: <u>1.0</u> (µL)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)
Prep Final Vol.: <u>10000</u> (µL)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>
Prep Date: <u>03/12/17</u>	Analysis Date: <u>03/16/17</u> Time: <u>0236</u>
Prep Batch: <u>606081</u>	Analytical Batch: <u>606362</u>
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	31.4	U	4.26	31.4	49.0
GCSV-05-03	>C28-C35	31.4	U	4.26	31.4	49.0
GCSV-05-01	C6-C12	13.7	U	4.36	13.7	49.0
GCSV-05-04	TOTAL TPH (C6-C35)	31.4	U	4.26	31.4	49.0

FORM I ORG-1

GCAL Report#: 217031024

Pa

(b) (6)

1D
ORGANICS ANALYSIS DATA SHEET

Report No: <u>217031024</u>	Client Sample ID: <u>FEIDS-SB14-SO-29</u>	
Collect Date: <u>03/06/17</u> Time: <u>1605</u>	GCAL Sample ID: <u>21703102420</u>	
Matrix: <u>Solid</u> % Moisture: <u>3.8</u>	Instrument ID: <u>GCS20A</u>	
Sample Amt: <u>10.3</u> g	Lab File ID: <u>2170320/sv20a015</u>	
Injection Vol.: <u>1.0</u> (μ L)	GC Column: <u>DB-5MS-30M</u> ID <u>.25</u> (mm)	
Prep Final Vol.: <u>10000</u> (μ L)	Dilution Factor: <u>1</u> Analyst: <u>MEF2</u>	
Prep Date: <u>03/17/17</u>	Analysis Date: <u>03/20/17</u> Time: <u>1729</u>	
Prep Batch: <u>606473</u>	Analytical Batch: <u>606684</u>	
Prep Method: <u>TX1005 PREP</u>	Analytical Method: <u>TX1005</u>	

CONCENTRATION UNITS: mg/kg

CAS	ANALYTE	RESULT	Q	DL	LOD	LOQ
GCSV-05-02	>C12-C28	32.3	U	4.39	32.3	50.4
GCSV-05-03	>C28-C35	32.3	U	4.39	32.3	50.4
GCSV-05-01	C6-C12	14.1	U	4.49	14.1	50.4
GCSV-05-04	TOTAL TPH (C6-C35)	32.3	U	4.39	32.3	50.4

FORM I ORG-1

GCAL Report#: 217031024

10/03/2018

SGS
002825

384 of 3834
ACCUTEST
FA41805

(b) (6)

**APPENDIX A-5
DATA EVALUATION REPORT FOR INVESTIGATION DERIVED
WASTE CHARACTERIZATION**

DATE: April 4, 2017
RECIPIENT: Krishna Nalavala (knalavala@cape-inc.com)
PREPARER: Richard Westmoreland (rwestmoreland@cape-inc.com)
COPY: chemistrysvcs@cape-inc.com
PROJECT #: 21003.003.120.001
PROJECT NAME: Fort Bliss Far East Illegal Dump Site Waste Characterization Water
DESCRIPTION: Wastewater sample for the purpose of **DISPOSAL**

ITEMS SUBMITTED UNDER THIS TRANSMITTAL:

ITEM CLASSIFICATION	ITEM DESCRIPTION	# OF COPIES
<input type="checkbox"/> Original Analytical Data (Hardcopy/CD)		
<input checked="" type="checkbox"/> Lab Reports – Annotated Form 1s	One wastewater sample, Collected March 7, 2017, SGS Accutest Southeast, Orlando, FL, SDG FA41843	1
<input type="checkbox"/> EDDs		
<input type="checkbox"/> Quality Assurance Reports		
<input type="checkbox"/> Planning Document		
<input type="checkbox"/> Proposal Information		
<input type="checkbox"/> Lab SOW and Pricing		

ACTION CODE FOR RECIPIENT:

- ☒ For Recipient Use
☐ Revise and Resubmit to Preparer
☐ No exception taken
☐ Revise as noted

(b) (6)

PREPARER COMMENTS:

The package consists of one wastewater sample collected on March 7, 2017, and reported in SDG FA41843.

The attached chain-of-custody forms present a summary of the CAPE identification numbers, data of collection, sample matrix, and the analyses requested.

The samples were shipped to SGS Accutest Southeast, Orlando, FL for analysis. The total TPH portion was subcontracted to Gulf Coast Analytical Laboratories (GCAL), Baton Rouge, LA.

The samples were analyzed for the following methods:

Toxicity Characteristic Leaching Procedure (TCLP) Volatile Organic Compounds (VOCs) by SW-846 Method 8260B;
 TCLP Semivolatile Organic Compounds (SVOCs) by SW-846 Method 8270D;
 Organochlorine Pesticides by SW-846 Method 8081B;
 Polychlorinated Biphenyls (PCBs) by SW-846 Method 8082A;
 Chlorinated Herbicides by SW-846 Method 8151A;
 TCLP Metals/Mercury by SW-846 Methods 6010C/7470A;
 Total Petroleum Hydrocarbons (TPH) by TCEQ Method TX1005 (GCAL);
 Ignitability by EPA Method 1010;

Corrosivity by SW-846 Chapter 7 (7.1); and,
Reactive Cyanide/Sulfide by SW-846 Chapter 7 (7.2).

EPA Level IV data packages were provided for review.

Even though this was a liquid waste sample (<0.5 % Solids), the laboratory followed the SW-846 1311 method for water samples, as requested by the project. They analyzed the liquid portion of the TCLP-filtered sample as the TCLP leachate for TCLP SVOCs and TCLP Metals. The TCLP VOCs were analyzed directly from the 40ml VOC vials. Though these are essentially “total analyses” (minus any solids), the results are reported in mg/L as TCLP.

Data Validation Comments

Data validation was performed in accordance with the *U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.0, July 2013*; and, a modified *USEPA National Functional Guidelines (NFG) for Superfund Organic Methods Data Review, September 2016*. When specific guidance was not available, the data was evaluated in a conservative manner consistent with USEPA standards using best professional judgement.

Results reported above the Detection Limits (DL) and below the Limit of Quantitation (LOQ) are qualified “J”. Non-detected results are reported at the Limit of Detection with a “U” qualifier.

Any aspect of the data not discussed in this report should be considered qualitatively and quantitatively valid, as reported, based on the deliverables reviewed,

There were no problems that required any qualification of data in the VOCs.

For SVOCs, four of the six surrogates exhibited low recoveries. The sample was re-analyzed with similar results. The laboratory reported both sets of surrogate recoveries but reported only the analytical results from the first analysis. All of the compounds were associated with the failed surrogates. Per the NFG, the compounds were qualified “UJ”, as all were non-detect.

For SVOCs, the matrix spike/matrix spike duplicate (MS/MSD) was performed on a non-CAPE sample. Even though the 2-Methylphenol and 3&4-Methylphenol exhibited low recoveries, no qualification of data was required for a MS/MSD on a dissimilar matrix.

For SVOCs, an Initial Calibration Verification (ICV) failed criteria for 3&4-Methylphenol. The sample was not analyzed with this ICV and no qualification of data was required.

For SVOCs, the laboratory was unable to separate 3-Methylphenol and 4-Methylphenol and reported the sum of the two as 3&4-Methylphenol. It is CAPE policy to not qualify data if reported as 3&4-Methylphenol.

For Pesticides, the sample exhibited low recoveries in both surrogates. The laboratory did not re-analyze the samples as required by the method. All compounds were associated with the failed surrogates and were qualified “J” for positive results and “UJ” for non-detects per the NFG.

For Pesticides, the ICV failed criteria for Chlordane on both columns, but this was not a target analyte so no qualification of data was required.

For PCBs, the sample exhibited low recoveries in both surrogates. The sample was re-analyzed with similar results. The laboratory reported both sets of surrogate recoveries but reported only the analytical results from the first analysis. All of the PCBs were associated with the failed surrogates. All results were non-detect and qualified “UJ” per the NFG.

For Herbicides, the sample exhibited low recoveries in the surrogate. The sample was re-analyzed with similar results. The laboratory reported both sets of surrogate recoveries but reported only the analytical results from the first analysis. All Herbicides were qualified "J" for positive results and "UJ" for non-detects per the NFG.

For Herbicides, the MS/MSD was performed on the CAPE sample. 2,4,5-TP (Silvex) exhibited elevated recoveries. This compound was non-detect in the sample and did not require qualification for elevated recoveries.

For Herbicides, Dichloroprop failed the 40 RPD criteria for second column confirmation. Dichloroprop was qualified "J" per the NFG.

For Herbicides, the continuing calibration verification (CCV) analyzed just prior to the sample failed criteria for MCPA on both columns. MCPA was non-detect in the sample and was qualified "UJ" per the NFG.

For Herbicides, the ICV failed criteria for Pentachlorophenol on both columns. A second ICV was analyzed immediately with acceptable results. No qualification of data was required.

For TCLP metals, the serial dilution for Barium failed the 10 Relative Percent Difference (10RPD) criteria. Barium was qualified "J" in the sample per the NFG.

For TPH, the sample was received at GCAL at 18.3 °C. Using best professional judgement based on the NFG for other methods, all fractions were qualified "J" for positive results and "UJ" for non-detects.

There were no problems in the general chemistry analyses that required any qualification of data/

Based on the results from the TX1005 data, the laboratory was not required to perform the TX1006 method.

It is obvious from all of the failed surrogate data that this sample causes a severe matrix effect in all of the analyses. All of the acceptable laboratory control samples (LCS) verify the matrix effect.

Please see the attached data for your use and review. Note the data has undergone a data quality assessment and evaluation for the intended purpose of DISPOSAL only.

Enclosed results are Approved for Quality Assurance Release by: Richard Westmoreland, April 4, 2017.

ATTACHMENT 1

CHAIN OF CUSTODY FORMS

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: FA41843 CLIENT: Cape Env. PROJECT: ER Services
DATE/TIME RECEIVED: 03/08/17 1000 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER: _____
AIRBILL NUMBERS: 813 1396 6429

COOLER INFORMATION

- ☐ CUSTODY SEAL NOT PRESENT OR NOT INTACT
☐ CHAIN OF CUSTODY NOT RECEIVED (COC)
☐ ANALYSIS REQUESTED IS UNCLEAR OR MISSING
☐ SAMPLE DATES OR TIMES UNCLEAR OR MISSING
☐ TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- ☐ TRIP BLANK PROVIDED
☒ TRIP BLANK NOT PROVIDED
☒ TRIP BLANK NOT ON COC
☐ TRIP BLANK INTACT
☐ TRIP BLANK NOT INTACT
☐ RECEIVED WATER TRIP BLANK
☐ RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
NUMBER OF 5035 FIELD KITS ? _____
NUMBER OF LAB FILTERED METALS ? _____

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS: (3) vials have headspace.

TEMPERATURE INFORMATION

- ☐ IR THERM ID 1 CORR. FACTOR +0.8
☐ OBSERVED TEMPS: 3.4
☐ CORRECTED TEMPS: 4.2 (USED FOR LIMS)

SAMPLE INFORMATION

- ☐ INCORRECT NUMBER OF CONTAINERS USED
☐ SAMPLE RECEIVED IMPROPERLY PRESERVED
☐ INSUFFICIENT VOLUME FOR ANALYSIS
☐ DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
☐ ID'S ON COC DO NOT MATCH LABEL
☒ VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
☐ BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
☐ NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
☐ UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
☐ SAMPLE CONTAINER(S) RECEIVED BROKEN
☐ 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
☐ BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
☐ % SOLIDS JAR NOT RECEIVED
☐ RESIDUAL CHLORINE PRESENT LOT# _____

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIG
NF 02/16

8/08/17 REVIEWER SIGNATURE/DATE KD 03/08/17
receipt confirmation 020116.xls

FA41843: Chain of Custody

Page 2 of 4

ATTACHMENT 2

DATA SUMMARY REPORTS

Fort Bliss Far East Illegal Dump Site

Waste Characterization Samples Collected March 7, 2017

Sample Identification	Regulatory Limits	FEIDS-WC1-LI-01
Lab Identification		FA41843-1
Date		3/7/2017
Matrix		Water
Texas Petroleum Hydrocarbons Method TX1005		ug/L
GCAL sample ID 21703132801		
>C12-C28	--	23,000UJ
>C28-C35	--	23,000UJ
C6-C12	--	1,620J
TOTAL TPH (C6-C35)	--	1,620J
TCLP Volatiles Method SW846 8260B	mg/L	mg/L
Benzene	0.5	0.0050 UJ
2-Butanone (MEK)	200.0	0.035 UJ
Carbon Tetrachloride	0.5	0.0050 UJ
Chlorobenzene	100.0	0.0050 UJ
Chloroform	6.0	0.0050 UJ
1,4-Dichlorobenzene	7.5	0.0050 UJ
1,2-Dichloroethane	0.5	0.0050 UJ
1,1-Dichloroethylene	0.7	0.0050 UJ
Tetrachloroethylene	0.7	0.0050 UJ
Trichloroethylene	0.5	0.0050 UJ
Vinyl Chloride	0.2	0.0050 UJ
TCLP Semivolatiles Method 8SW846 8270D	mg/L	mg/L
2-Methylphenol	200	0.010 UJ
3&4-Methylphenol	200	0.020 UJ
Pentachlorophenol	100	0.10 UJ
2,4,5-Trichlorophenol	400	0.020 UJ
2,4,6-Trichlorophenol	2	0.020 UJ
1,4-Dichlorobenzene	7.5	0.020 UJ
2,4-Dinitrotoluene	0.13	0.010 UJ
Hexachlorobenzene	0.13	0.010 UJ
Hexachlorobutadiene	0.5	0.010 UJ
Hexachloroethane	3.0	0.020 UJ
Nitrobenzene	2.0	0.020 UJ
Pyridine	5.0	0.035 UJ
Herbicides Method SW846 8151A	ug/L	ug/L
2,4-D	--	1.0 UJ
2,4,5-TP (Silvex)	--	0.10 UJ
2,4,5-T	--	0.10 UJ
Dicamba	--	0.10 UJ
Dinoseb	--	2.0 UJ
Dalapon	--	2.5 UJ
Dichloroprop	--	0.42J
2,4-DB	--	1.0 UJ
MCP	--	100 UJ
MCPA	--	150 UJ
Pentachlorophenol	--	0.10 UJ

Notes

Regulatory Limits: Title 40 Code of Federal Regulations (40 CFR) Part 261 Subpart C

U - Result is not detected

mg/L: milligrams per liter

ug/L: micrograms per Liter

Bold results indicate positively detected value

Highlighted results exceed the Regulatory Limits

Fort Bliss Far East Illegal Dump Site

Waste Characterization Samples Collected March 7, 2017

Sample Identification	Regulatory Limits	FEIDS-WC1-LI-01
Lab Identification		FA41843-1
Date		3/7/2017
Matrix		Water
<i>Pesticides Method SW846 8081B</i>	<i>ug/L</i>	<i>ug/L</i>
Aldrin	--	0.019 UJ
alpha-BHC	--	0.019 UJ
beta-BHC	--	0.019 UJ
delta-BHC	--	0.019 UJ
gamma-BHC (Lindane)	--	0.019 UJ
alpha-Chlordane	--	0.019 UJ
gamma-Chlordane	--	0.011J
Dieldrin	--	0.0096 UJ
4,4'-DDD	--	0.038 UJ
4,4'-DDE	--	0.038 UJ
4,4'-DDT	--	0.038 UJ
Endrin	--	0.019 UJ
Endosulfan sulfate	--	0.019 UJ
Endrin aldehyde	--	0.019 UJ
Endrin ketone	--	0.019 UJ
Endosulfan-I	--	0.019 UJ
Endosulfan-II	--	0.019 UJ
Heptachlor	--	0.019 UJ
Heptachlor epoxide	--	0.62J
Methoxychlor	--	0.038 UJ
Toxaphene	--	1.4 UJ
<i>Polychlorinated Biphenyls (PCBs) Method SW846 8082A</i>		<i>ug/L</i>
Aroclor 1016	--	0.20 UJ
Aroclor 1221	--	0.30 UJ
Aroclor 1232	--	0.30 UJ
Aroclor 1242	--	0.20 UJ
Aroclor 1248	--	0.20 UJ
Aroclor 1254	--	0.20 UJ
Aroclor 1260	--	0.20 UJ
<i>TCLP Metals Method SW846 6010C</i>	<i>mg/L</i>	<i>mg/L</i>
Arsenic	5.0	0.050 U
Barium	100	0.25 J
Cadmium	1.0	0.010 U
Chromium	5.0	0.027 J
Lead	5.0	0.023 J
Selenium	1.0	0.050 U
Silver	5.0	0.020 U
<i>TCLP Metals Method SW846 7470A</i>	<i>mg/L</i>	<i>mg/L</i>
Mercury	0.2	0.0010 U
<i>General Chemistry</i>		
Corrosivity as pH (su)	<2, >12.5	9.5
Cyanide Reactivity (mg/L)	250	0.75 U
Ignitability (Flashpoint) (Deg. F)	<140	>200
Sulfide Reactivity (mg/L)	500	50 U

Notes

Regulatory Limits: Title 40 Code of Federal Regulations (40 CFR) Part 261 Subpart C

U - Result is not detected

mg/L: milligrams per liter

ug/L: micrograms per Liter

Bold results indicate positively detected value

Highlighted results exceed the Regulatory Limits



ACCUTEST
Southeast

03/24/17

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION,
VERIFICATION, TESTING AND CERTIFICATION COMPANY.



e-Hardcopy 2.0
Automated Report

Technical Report for

Cape, Inc

Far East Dump Site, Fort Bliss, TX

SGS Accutest Job Number: FA41843

Sampling Date: 03/07/17

Report to:

Cape, Inc
500 Pinnacle Ct
Norcross, GA 30071
wvermeychuk@cape-inc.com; chemistrysucs@cape-inc.com
ATTN: Wayne Vermeychuk

Total number of pages in report: 1328



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

(b) (6)

(b) (6)

Technical Director

Client Service contact: (b) (6)

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)
DoD ELAP(L-A-B L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),
AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.





Sample Summary

Cape, Inc

Job No: FA41843

Far East Dump Site, Fort Bliss, TX

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA41843-1	03/07/17	10:35 SM	03/08/17	AQ	Water	FEIDS-WC1-LI-01

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: Cape, Inc

Job No: FA41843

Site: Far East Dump Site, Fort Bliss, TX

Report Date: 3/24/2017 8:09:11 PM

1 Sample(s) were collected on 03/07/2017 and were received at SGS Accutest Southeast (SASE) on 03/08/2017 properly preserved, at 4.2 Deg. C and intact. These Samples received an SASE job number of FA41843. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: LEACHATE

Batch ID: VM4049

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41865-2MS, FA41865-2MSD were used as the QC samples indicated.

FA41843-1: Sample was treated with an anti-foaming agent.

Extractables by GCMS By Method SW846 8270D

Matrix: LEACHATE

Batch ID: OP64185

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41845-1LMS, FA41845-1LMSD, FA41845-2LDUP were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for 2-Methylphenol, 3&4-Methylphenol are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for 2-Methylphenol, 3&4-Methylphenol are outside control limits for sample OP64185-MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA41843-1 have surrogates outside control limits.

FA41843-1: Confirmation run for surrogate recoveries.

FA41843-1 for Terphenyl-d14: Outside control limits due to matrix interference.

FA41843-1 for Phenol-d5: Outside control limits due to matrix interference.

FA41843-1 for 2,4,6-Tribromophenol: Outside control limits due to matrix interference.

FA41843-1 for 2-Fluorophenol: Outside control limits due to matrix interference.

Extractables by GC By Method SW846 8081B

Matrix: AQ

Batch ID: OP64169

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41960-5MS, FA41960-5MSD were used as the QC samples indicated.

Sample(s) FA41843-1 have surrogates outside control limits. Probable cause is due to matrix interference.

FA41843-1 for Tetrachloro-m-xylene: Outside control limits due to matrix interference. Confirmed by multiple analyses.

FA41843-1 for Decachlorobiphenyl: Outside control limits due to matrix interference. Confirmed by multiple analyses.

Friday, March 24, 2017

Page 1 of 3

Extractables by GC By Method SW846 8082A

Matrix: AQ

Batch ID: OP64170

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41843-1 have surrogates outside control limits.

OP64170-BS: Insufficient sample for MS/MSD.

FA41843-1 for Decachlorobiphenyl: Outside control limits due to matrix interference. Confirmed by reanalysis. Insufficient sample for re-extraction.

FA41843-1 for Tetrachloro-m-xylene: Outside control limits due to matrix interference. Confirmed by reanalysis. Insufficient sample for re-extraction.

Extractables by GC By Method SW846 8151A

Matrix: AQ

Batch ID: OP64166

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41843-1MS, FA41843-1MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 2,4,5-TP (Silvex) are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2,4,5-TP (Silvex) are outside control limits. Probable cause is due to matrix interference.

Sample(s) FA41843-1 have surrogates outside control limit.

FA41843-1: All hits confirmed by dual column analysis.

FA41843-1 for 2,4-DCAA: Outside control limits due to matrix interference. Confirmed by multiple analyses.

FA41843-1 for Dichloroprop: Primary and confirmation results differ by more than 40%. Lower value reported due to possible coelution.

Metals By Method SW846 6010C

Matrix: LEACHATE

Batch ID: MP31778

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41844-1DUP, FA41844-1MS, FA41844-1MSD, FA41844-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Barium are outside control limits for sample MP31778-SD1. Probable cause is due to sample non-homogeneity.

MP31778-SD1 for Barium: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix: LEACHATE

Batch ID: MP31775

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA41845-2LDUP, FA41845-2LMS, FA41845-2LMSD, FA41845-2LSDL were used as the QC samples for metals.

Wet Chemistry By Method SW846 1010

Matrix: AQ

Batch ID: GN74312

FA41843-1 for Ignitability (Flashpoint): Not ignitable.

Wet Chemistry By Method SW846 CHAP7

Matrix: AQ

Batch ID: GN74345

Sample(s) LA31013-1ADUP were used as the QC samples for Corrosivity as pH.

Friday, March 24, 2017

Page 2 of 3

Wet Chemistry By Method SW846 CHAP7

Matrix: AQ

Batch ID: GP29400

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) LA30857-1DUP were used as the QC samples for Cyanide Reactivity.

Matrix: AQ

Batch ID: GP29401

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) LA30857-1DUP were used as the QC samples for Sulfide Reactivity.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

Kim Benham, Client Services (signature on file)

Date March 24, 2017

Friday, March 24, 2017

Page 3 of 3

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID:	FEIDS-WC1-LI-01	Date Sampled:	03/07/17
Lab Sample ID:	FA41843-1	Date Received:	03/08/17
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8260B SW846 1311		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	M94382.D	10	03/13/17	KM	03/10/17	OP64120	VM4049
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCLP List

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.0050 U	D018	0.50	0.010	0.0050	0.0031	mg/l	
78-93-3	2-Butanone (MEK)	0.035 U	D035	200	0.050	0.035	0.020	mg/l	
56-23-5	Carbon Tetrachloride	0.0050 U	D019	0.50	0.010	0.0050	0.0036	mg/l	
108-90-7	Chlorobenzene	0.0050 U	D021	100	0.010	0.0050	0.0020	mg/l	
67-66-3	Chloroform	0.0050 U	D022	6.0	0.010	0.0050	0.0030	mg/l	
106-46-7	1,4-Dichlorobenzene	0.0050 U	D027	7.5	0.010	0.0050	0.0026	mg/l	
107-06-2	1,2-Dichloroethane	0.0050 U	D028	0.50	0.010	0.0050	0.0031	mg/l	
75-35-4	1,1-Dichloroethylene	0.0050 U	D029	0.70	0.010	0.0050	0.0032	mg/l	
127-18-4	Tetrachloroethylene	0.0050 U	D039	0.70	0.010	0.0050	0.0022	mg/l	
79-01-6	Trichloroethylene	0.0050 U	D040	0.50	0.010	0.0050	0.0035	mg/l	
75-01-4	Vinyl Chloride	0.0050 U	D043	0.20	0.010	0.0050	0.0041	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Sample was treated with an anti-foaming agent.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

MCL = Maximum Contamination Level (40 CFR 261.7/1/11)

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-WC1-L1-01

Lab Sample ID: FA41843-1

Date Sampled: 03/07/17

Matrix: AQ - Water

Date Received: 03/08/17

Method: SW846 8270D SW846 3510C

Percent Solids: n/a

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X052957.D	1	03/16/17	NG	03/15/17	OP64185	SX2243
Run #2 ^a	X052974.D	1	03/17/17	NG	03/15/17	OP64185	SX2244

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2	100 ml	1.0 ml

ABN TCLP List

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	LOQ	LOD	DL	Units	Q
95-48-7	2-Methylphenol	0.010 U ^J	D023	200	0.050	0.010	0.0056	mg/l	
	3&4-Methylphenol	0.020 U	D024	200	0.050	0.020	0.0098	mg/l	
87-86-5	Pentachlorophenol	0.10 U	D037	100	0.25	0.10	0.050	mg/l	
95-95-4	2,4,5-Trichlorophenol	0.020 U	D041	400	0.050	0.020	0.0074	mg/l	
88-06-2	2,4,6-Trichlorophenol	0.020 U	D042	2.0	0.050	0.020	0.0075	mg/l	
106-46-7	1,4-Dichlorobenzene	0.020 U	D027	7.5	0.050	0.020	0.0050	mg/l	
121-14-2	2,4-Dinitrotoluene	0.010 U	D030	0.13	0.050	0.010	0.0081	mg/l	
118-74-1	Hexachlorobenzene	0.010 U	D032	0.13	0.050	0.010	0.0069	mg/l	
87-68-3	Hexachlorobutadiene	0.010 U	D033	0.50	0.050	0.010	0.0050	mg/l	
67-72-1	Hexachloroethane	0.020 U	D034	3.0	0.050	0.020	0.016	mg/l	
98-95-3	Nitrobenzene	0.020 U	D036	2.0	0.050	0.020	0.0093	mg/l	
110-86-1	Pyridine	0.035 U ^J	D038	5.0	0.10	0.035	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	4% ^b	4%	14-67%
4165-62-2	Phenol-d5	8% ^b	8%	10-50%
118-79-6	2,4,6-Tribromophenol	10% ^b	10%	33-118%
4165-60-0	Nitrobenzene-d5	51%	51%	42-108%
321-60-8	2-Fluorobiphenyl	51%	51%	40-106%
1718-51-0	Terphenyl-d14	35% ^b	33%	39-121%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

MCL = Maximum Contamination Level (40 CFR 261.7/1/11)

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-WC1-LI-01

Lab Sample ID: FA41843-1

Date Sampled: 03/07/17

Matrix: AQ - Water

Date Received: 03/08/17

Method: SW846 8151A SW846 8151A





Percent Solids: n/a

Project: Far East Dump Site, Fort Bliss, TX

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	CC053939.D	1	03/23/17	NJ	03/14/17	OP64166	GCC1115
Run #2 ^b	CC053890.D	1	03/17/17	MG	03/14/17	OP64166	GCC1113

	Initial Volume	Final Volume
Run #1	250 ml	5.0 ml
Run #2	250 ml	5.0 ml

Herbicide List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
94-75-7	2,4-D	1.0 U 	2.0	1.0	0.70	ug/l	
93-72-1	2,4,5-TP (Silvex)	0.10 U	0.20	0.10	0.051	ug/l	
93-76-5	2,4,5-T	0.10 U	0.20	0.10	0.061	ug/l	
1918-00-9	Dicamba	0.10 U	0.20	0.10	0.040	ug/l	
88-85-7	Dinoseb	2.0 U	4.0	2.0	1.0	ug/l	
75-99-0	Dalapon	2.5 U 	5.0	2.5	2.0	ug/l	
120-36-5	Dichloroprop ^c	0.42	2.0	1.0	0.37	ug/l	J
94-82-6	2,4-DB	1.0 U 	2.0	1.0	0.77	ug/l	
93-65-2	MCP	100 U	200	100	69	ug/l	
94-74-6	MCPA	150 U	200	150	110	ug/l	
87-86-5	Pentachlorophenol	0.10 U 	0.20	0.10	0.093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	24% ^d	24%	39-135%

(a) All hits confirmed by dual column analysis.

(b) Confirmation run for surrogate recoveries.

(c) Primary and confirmation results differ by more than 40%. Lower value reported due to possible coelution.

(d) Outside control limits due to matrix interference. Confirmed by multiple analyses.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-WC1-LI-01

Lab Sample ID: FA41843-1

Date Sampled: 03/07/17

Matrix: AQ - Water

Date Received: 03/08/17

Method: SW846 8081B SW846 3510C

Percent Solids: n/a

Project: Far East Dump Site, Fort Bliss, TX

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK82196.D	1	03/17/17	MV	03/14/17	OP64169	GKK2635
Run #2							

Run #	Initial Volume	Final Volume
Run #1	260 ml	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
309-00-2	Aldrin	0.019 U	0.038	0.019	0.010	ug/l	
319-84-6	alpha-BHC	0.019 U	0.038	0.019	0.0084	ug/l	
319-85-7	beta-BHC	0.019 U	0.038	0.019	0.0099	ug/l	
319-86-8	delta-BHC	0.019 U	0.038	0.019	0.0091	ug/l	
58-89-9	gamma-BHC (Lindane)	0.019 U	0.038	0.019	0.0085	ug/l	
5103-71-9	alpha-Chlordane	0.019 U	0.038	0.019	0.0074	ug/l	
5103-74-2	gamma-Chlordane	0.011	0.038	0.019	0.0085	ug/l	J
60-57-1	Dieldrin	0.0096 U	0.038	0.0096	0.0091	ug/l	
72-54-8	4,4'-DDD	0.038 U	0.077	0.038	0.019	ug/l	
72-55-9	4,4'-DDE	0.038 U	0.077	0.038	0.019	ug/l	
50-29-3	4,4'-DDT	0.038 U	0.077	0.038	0.019	ug/l	
72-20-8	Endrin	0.019 U	0.077	0.019	0.0081	ug/l	
1031-07-8	Endosulfan sulfate	0.019 U	0.077	0.019	0.0061	ug/l	
7421-93-4	Endrin aldehyde	0.019 U	0.077	0.019	0.011	ug/l	
53494-70-5	Endrin ketone	0.019 U	0.077	0.019	0.0060	ug/l	
959-98-8	Endosulfan-I	0.019 U	0.038	0.019	0.0061	ug/l	
33213-65-9	Endosulfan-II	0.019 U	0.038	0.019	0.0058	ug/l	
76-44-8	Heptachlor	0.019 U	0.038	0.019	0.010	ug/l	
1024-57-3	Heptachlor epoxide	0.62	0.038	0.019	0.0078	ug/l	
72-43-5	Methoxychlor	0.038 U	0.077	0.038	0.019	ug/l	
8001-35-2	Toxaphene	1.4 U	1.9	1.4	0.83	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	21% ^a		42-127%
2051-24-3	Decachlorobiphenyl	5% ^a		27-127%

(a) Outside control limits due to matrix interference. Confirmed by multiple analyses.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID:	FEIDS-WC1-LI-01	Date Sampled:	03/07/17
Lab Sample ID:	FA41843-1	Date Received:	03/08/17
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Far East Dump Site, Fort Bliss, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MM39740.D	1	03/15/17	NJ	03/14/17	OP64170	GMM765
Run #2 ^a	MM39744.D	1	03/15/17	NJ	03/14/17	OP64170	GMM765

	Initial Volume	Final Volume
Run #1	250 ml	5.0 ml
Run #2	250 ml	5.0 ml

PCB List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
12674-11-2	Aroclor 1016	0.20 U ^J	0.40	0.20	0.16	ug/l	
11104-28-2	Aroclor 1221	0.30 U	0.40	0.30	0.20	ug/l	
11141-16-5	Aroclor 1232	0.30 U	0.40	0.30	0.20	ug/l	
53469-21-9	Aroclor 1242	0.20 U	0.40	0.20	0.16	ug/l	
12672-29-6	Aroclor 1248	0.20 U	0.40	0.20	0.16	ug/l	
11097-69-1	Aroclor 1254	0.20 U	0.40	0.20	0.16	ug/l	
11096-82-5	Aroclor 1260	0.20 U ^J	0.40	0.20	0.16	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	20% ^b	18%	38-127%
2051-24-3	Decachlorobiphenyl	5% ^b	5%	25-137%

(a) Confirmation run for surrogate recoveries.

(b) Outside control limits due to matrix interference. Confirmed by reanalysis. Insufficient sample for re-extraction.

U = Not detected LOD = Limit of Detection
 LOQ = Limit of Quantitation DL = Detection Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-WC1-LI-01

Lab Sample ID: FA41843-1

Matrix: AQ - Water

Date Sampled: 03/07/17

Date Received: 03/08/17

Percent Solids: n/a

Project: Far East Dump Site, Fort Bliss, TX

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	LOQ	LOD	DL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.050 U	D004	5.0	0.10	0.050	0.013	mg/l	1	03/13/17	03/13/17 LM	SW846 6010C ²
Barium	0.25 J	D005	100	2.0	0.050	0.050	mg/l	1	03/13/17	03/13/17 LM	SW846 6010C ²
Cadmium	0.010 U	D006	1.0	0.050	0.010	0.0020	mg/l	1	03/13/17	03/13/17 LM	SW846 6010C ²
Chromium	0.027 J	D007	5.0	0.10	0.050	0.010	mg/l	1	03/13/17	03/13/17 LM	SW846 6010C ²
Lead	0.023 J	D008	5.0	0.050	0.020	0.011	mg/l	1	03/13/17	03/13/17 LM	SW846 6010C ²
Mercury	0.0010 U	D009	0.20	0.0050	0.0010	0.00050	mg/l	1	03/13/17	03/13/17 JL	SW846 7470A ¹
Selenium	0.050 U	D010	1.0	0.10	0.050	0.029	mg/l	1	03/13/17	03/13/17 LM	SW846 6010C ²
Silver	0.020 U	D011	5.0	0.10	0.020	0.0070	mg/l	1	03/13/17	03/13/17 LM	SW846 6010C ²

(1) Instrument QC Batch: MA13889

(2) Instrument QC Batch: MA13890

(3) Prep QC Batch: MP31775

(4) Prep QC Batch: MP31778

LOQ = Limit of Quantitation

DL = Detect ion Limit

U = Indicates a result < LOD

LOD = Limit of Detection

B = Analyte found in associated blank

J = Indicates a result > = DL (MDL) but < LOQ

(b) (6)

Report of Analysis

Page 1 of 1

Client Sample ID: FEIDS-WC1-IJ-01

Lab Sample ID: FA41843-1

Matrix: AQ - Water

Date Sampled: 03/07/17

Date Received: 03/08/17

Percent Solids: n/a

Project: Far East Dump Site, Fort Bliss, TX

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By Method
Corrosivity as pH	9.5				su	1	03/11/17 13:40	RC SW846 CHAP7
Cyanide Reactivity	0.75 U	1.5	0.75 ^a	0.75	mg/l	1	03/10/17 17:37	KH SW846 CHAP7
Ignitability (Flashpoint) ^b	> 200				Deg. F	1	03/09/17 09:11	SB SW846 1010
Sulfide Reactivity	50 U	50	50 ^a	50	mg/l	1	03/10/17 15:00	ZC SW846 CHAP7

(a) Value reported is laboratory DL (MDL).

(b) Not ignitable.

LOQ = Limit of Quantitation DL = Detection Limit U = Indicates a result < LOD
LOD = Limit of Detection B = Analyte found in associated blank J = Indicates a result > = DL (MDL) but < LOQ

SUBCONTRACTED DATA

ATTACHMENT 1

CHAIN OF CUSTODY FORMS



SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 217031328			CHECKLIST	YES	NO	NA
Client PM RCH2 4944 - SGS - Orlando	Transport Method FEDEX		Samples received with proper thermal and chemical preservation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Radioactivity is <1600 cpm? If no, record cpm value in notes section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			When used, were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Profile Number 272721	Received By Reese, Sean M.		COC relinquished and complete (including sample IDs, collect dates/times, and sampler name)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Short holds or RUSH samples received?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			All containers received in good condition and within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			All sample labels and containers received match the chain of custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Line Item(s) 1 - W - TX1005/1006	Receive Date(s) 03/13/17		Preservation checked at receipt? Exceptions: VOC, Coliform, TOC, Oil and Grease, DOC	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			Preservative added to any containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			VOC water containers received with headspace < 6mm?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			Received filtered sample volume for dissolved analysis?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			Trip blank present in all coolers containing VOC waters?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			Samples collected in containers provided by GCAL?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COOLERS			DISCREPANCIES	LAB PRESERVATIONS		
Airbill	Thermometer ID: E29	Temp(°C)	21703132801 - FEIDS-WC1-LI-01: Sample temperature > 6C	None		
7271 9995 9125		18.3				
NOTES			SGS notified of sample receiving temperature. GCAL instructed to proceed.			

Revision 1.6

Page 1 of 1

ATTACHMENT 2

DATA SUMMARY REPORTS